

RF TEST REPORT

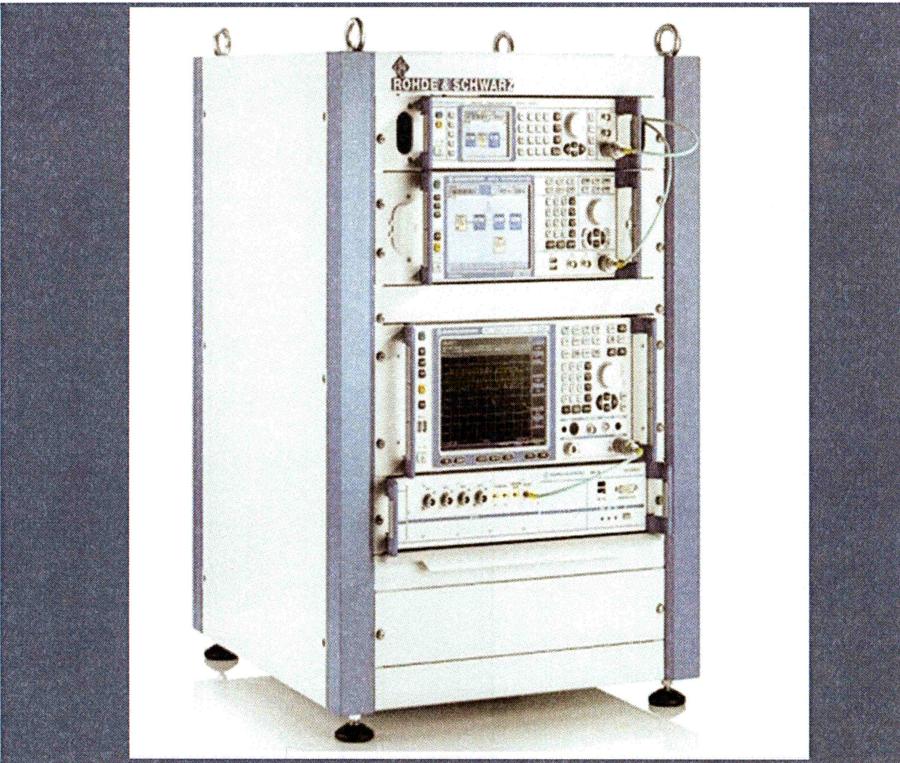
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Camera Hub G2H

ISSUED TO
Konec Home Pty Ltd

Suite 5.02 level 5 15 Talavera Road Macquarie Park NSW 2113
Australia



Tested by:	Ye Hongji
Date:	Aug. 12, 2021
BALUN	
Approved by:	Wei Yanquan (Chief Engineer)
Date:	Aug. 12, 2021

Report No.:	BL-SZ2140984-602
EUT Name:	Camera Hub G2H
Model Name:	CH-H01
Brand Name:	Aqara
Test Standard:	AS/NZS 4268:2017
Test Conclusion:	Pass
Test Date:	Apr. 28, 2021 ~ Jul. 13, 2021
Date of Issue:	Aug. 12, 2021

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 12, 2021</u>	<u>Initial Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 35°C
Ambient Relative Humidity	30% to 75%
Ambient Pressure	98 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v1.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Konec Home Pty Ltd
Address	Suite 5.02 level 5 15 Talavera Road Macquarie Park NSW 2113 Australia

2.2 Manufacturer Information

Manufacturer	Lumi United Technology Co., Ltd
Address	8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Camera Hub G2H
Model Name Under Test	CH-H01
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0.1
Software Version	V1.0.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

EUT Type	Stand-alone equipment
Network and Wireless connectivity	Wi-Fi 802.11b, 802.11g, 802.11n(HT20/40), Zigbee

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n(20 MHz): 2.412 GHz - 2.472 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 13. 802.11n(40 MHz): 2.422 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 11. The frequency block is 2.4GHz-2.4835GHz
Modulation Type	DSSS, OFDM
Equipment Type (LBT / non- LBT)	LBT based Detect and Avoid
Adaptive or non-adaptive	Adaptive
LBT Based	Yes (Load Based)
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	Monopole Antenna
Antenna Gain	2.3 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
Beamforming Gain	N/A
The Max RF Output power	18.6 dBm
Receiver Category	1

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.		

Test Items	Mode	Data Rate	Channel	
RF output power	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/7/13	3/7/11
Power Spectral Density	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/7/13	3/7/11
Adaptivity (adaptive equipment using modulations other than FHSS)	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/13	3/11
Occupied Channel Bandwidth	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/13	3/11
Transmitter unwanted emissions in the out-of-band domain	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/13	3/11
Transmitter unwanted emissions in the spurious domain	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/13	3/11
Receiver spurious emissions	11b/11g/11n20/11n40	1/6/6.5/13.5Mbps	1/13	3/11
Receiver Blocking	11b	1 Mbps	1/13	

Mode	Channel	Channel Number	Frequency (MHz)
802.11b	HIGH/MIDDLE/LOW(H/M/L)	13/7/1	2472/2442/2412
802.11g	HIGH/MIDDLE/LOW(H/M/L)	13/7/1	2472/2442/2412
802.11n20	HIGH/MIDDLE/LOW(H/M/L)	13/7/1	2472/2442/2412
802.11n40	HIGH/MIDDLE/LOW(H/M/L)	11/7/3	2462/2442/2422

3 SUMMARY OF TEST RESULTS

The EUT has been tested according to ETSI EN 300 328 V2.2.2 (2019-07).

No.	Identity	Document Title
1	AS/NZS 4268:2017	Radio equipment and systems - Short range devices - Limits and methods of measurement
2	ETSI EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

Test items and the results are as follows:

Report Section	Standard Rule	Description	Channel	Test Result	Verdict	Remark
Transmitter Parameters						
5.1.1	4.3.2.2	RF output power	Low/Middle/High	ANNEX A.1	Pass	--
5.1.2	4.3.2.3	Power Spectral Density	Low/Middle/High	ANNEX A.2	Pass	--
5.1.3	4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	--	ANNEX A.3	N/A	Note ¹ , Note ²
5.1.4	4.3.2.5	Medium Utilization (MU) factor	--	ANNEX A.4	N/A	Note ¹ , Note ²
5.1.5	4.3.2.6	Adaptivity (adaptive equipment using modulations other than FHSS)	Low/ High	ANNEX A.5	Pass	Note ² , Note ³
5.1.6	4.3.2.7	Occupied Channel Bandwidth	Low/ High	ANNEX A.6	Pass	--
5.1.7	4.3.2.8	Transmitter unwanted emissions in the out-of-band domain	Low/ High	ANNEX A.7	Pass	--
5.1.8	4.3.2.9	Transmitter unwanted emissions in the spurious domain	Low/ High	ANNEX A.8	Pass	--
Receiver Parameters						
5.2.1	4.2.3.2	Receiver categories	--	--	--	--
5.2.2	4.3.2.10	Receiver spurious emissions	Low/ High	ANNEX A.9	Pass	--
5.2.3	4.3.2.11	Receiver Blocking	Low/ High	ANNEX A.10	Pass	--
Other Parameters						
5.3.1	4.3.2.12	Geo-location capability	--	--	N/A	Note ⁴
Note ¹ : This requirement apply to non-adaptive equipment or to adaptive equipment when operating in a non-adaptive mode. The equipment is using wide band modulations other than FHSS.						
Note ² : This requirement do not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.						
Note ³ : This requirement does not apply to non-adaptive equipment or adaptive equipment operating in a non-adaptive mode.						
Note ⁴ : This requirement does not apply to devices that do not support Geo-location capability.						

3.1 Additional Instructions

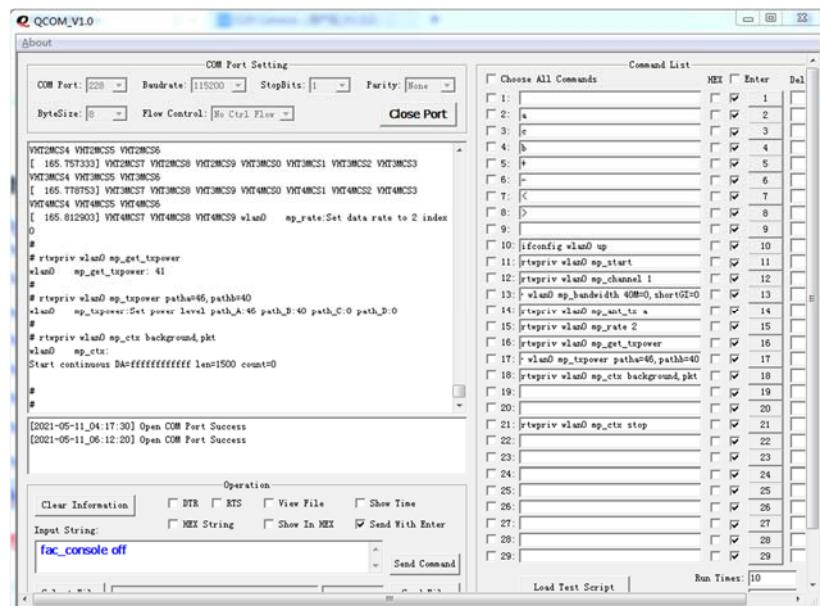
EUT Software Settings:

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software Version	QCOM_V1.0		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	Lenovo	X220
Mode	Channel	Soft Set	
802.11b	1	46	
	7	45	
	13	44	
802.11g	1	56	
	7	56	
	13	56	
802.11n20	1	51	
	7	51	
	13	51	
802.11n40	3	51	
	7	51	
	11	51	

Run software:



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 75%		
Atmospheric Pressure	98 kPa to 102 kPa		
Temperature	NT (Normal Temperature)	+22°C to +25°C	
	LT (Low Temperature)	-10°C	
	HT (High Temperature)	+40°C	
Working Voltage of the EUT	NV (Normal Voltage)	5 V	

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.06.01	2022.05.31
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2020.09.25	2021.09.24
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2021.06.01	2022.05.31
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.06.01	2022.05.31
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW270	100607	2021.06.01	2022.05.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
DC Power Supply	ITECH	IT6720	60010301071 7610007	2020.09.25	2021.09.24
Temperature Chamber	AHK	NTH64-40A	1310	2021.01.14	2022.01.03
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.06.01	2022.05.31
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2019.10.29	2021.10.28
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2021.01.05	2023.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2022.02.20

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.
TS8997 EMC32	ROHDE&SCHWARZ	V10.00.00	N/A

4.4 Measurement Uncertainty

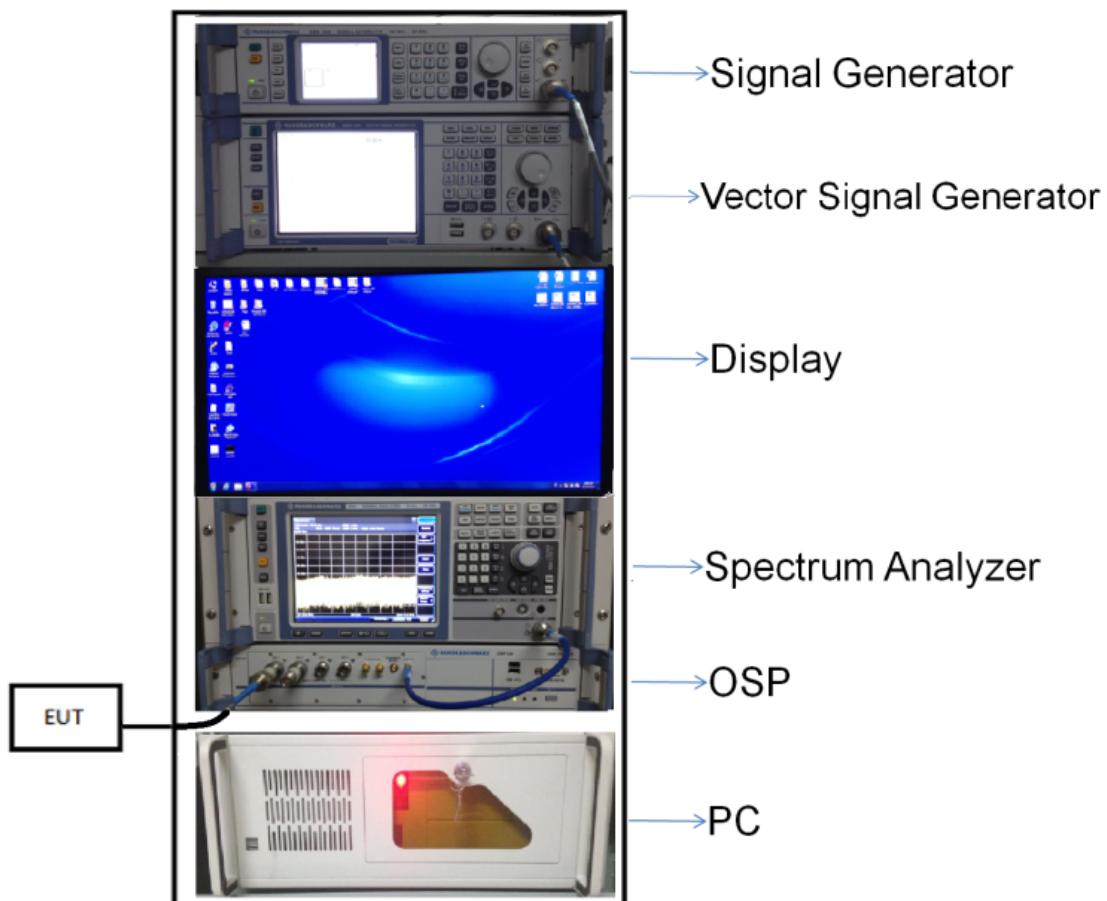
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	$\pm 3.6 \%$
RF output power, conducted	$\pm 0.66 \text{ dB}$
Power Spectral Density, conducted	$\pm 0.90 \text{ dB}$
Unwanted Emissions, conducted	$\pm 1.78 \text{ dB}$
All emissions, radiated	$\pm 5.36 \text{ dB}$
Temperature	$\pm 0.82 \text{ }^{\circ}\text{C}$
Humidity	$\pm 4.1 \%$

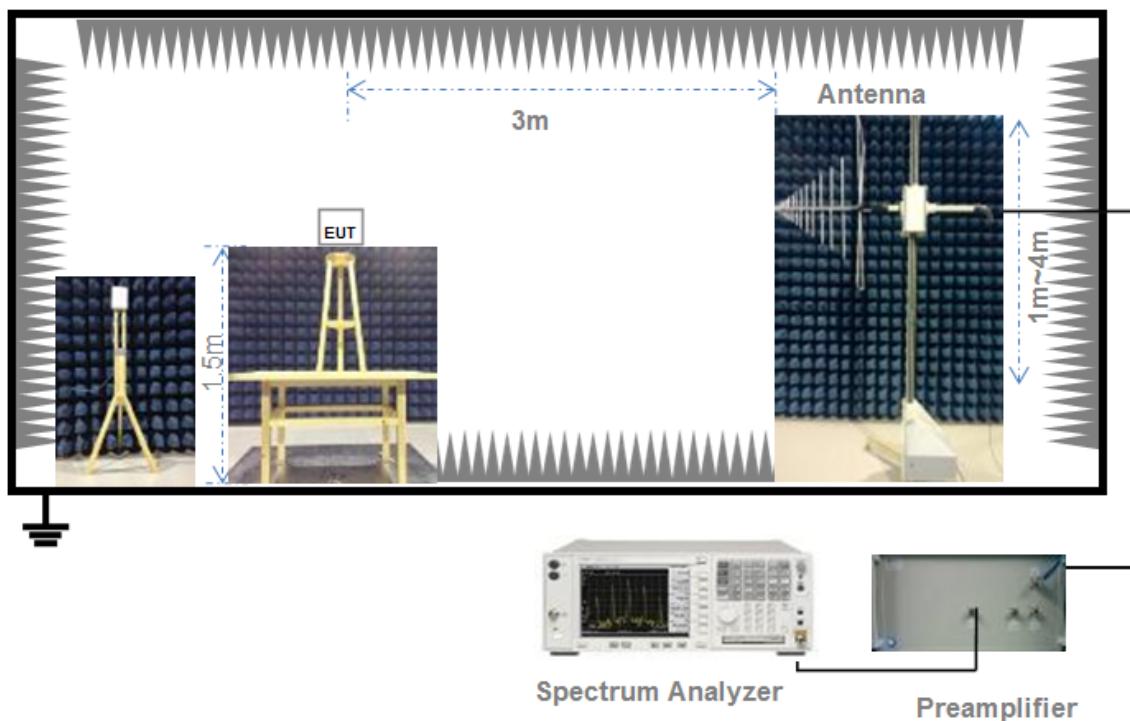
4.5 Description of Test Setup

4.5.1 For Conducted Test

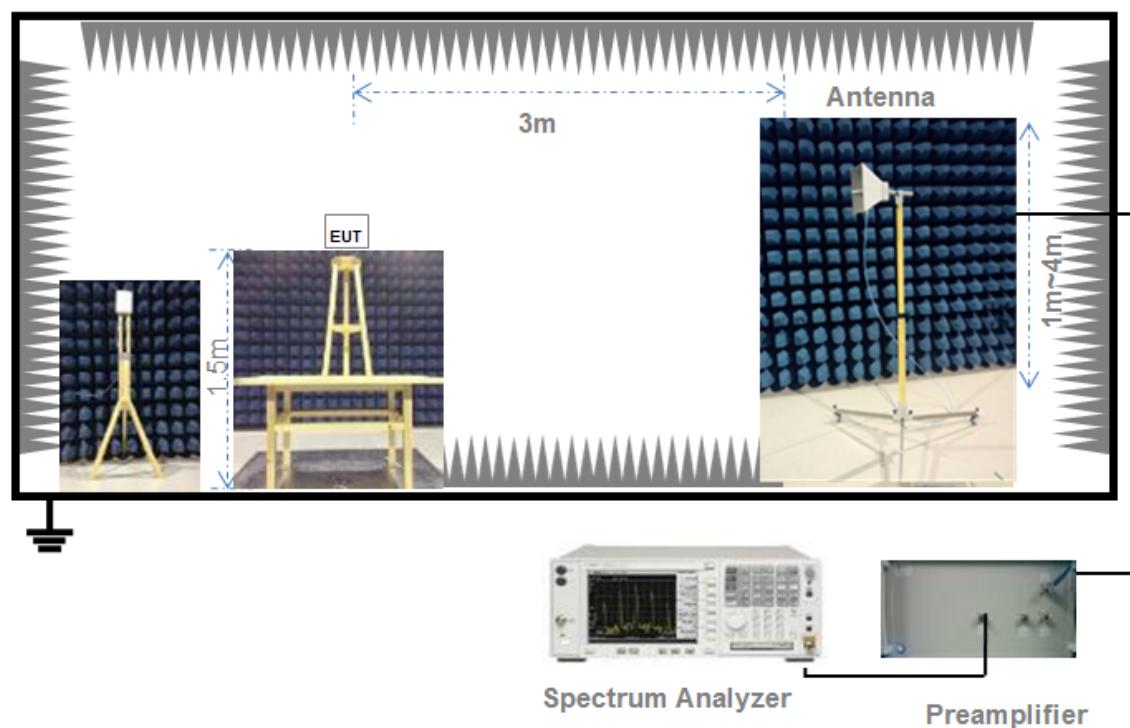


(Diagram 1)

4.5.2 For Radiated Test

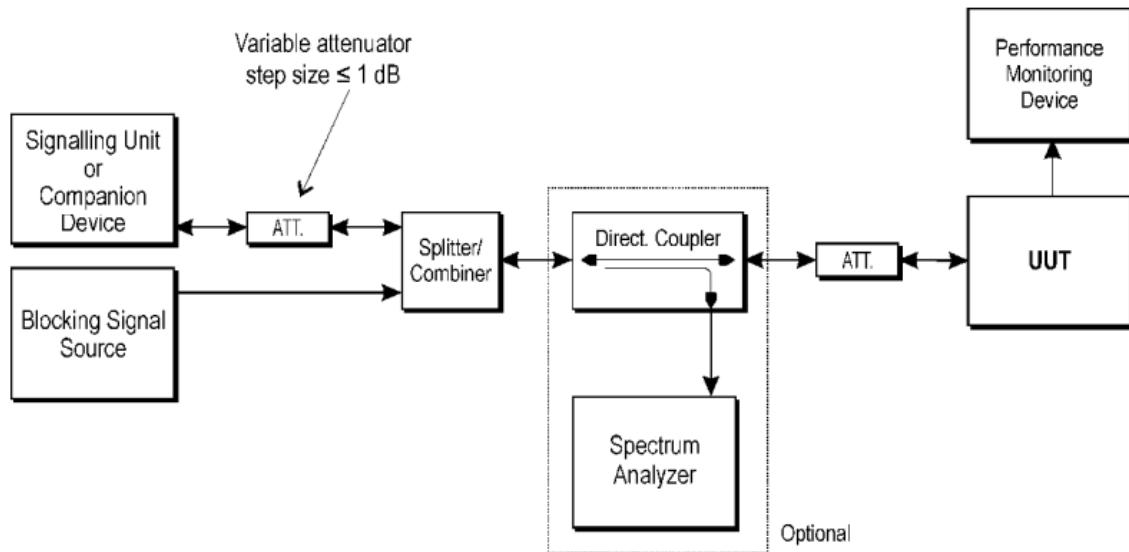


(Diagram 2)



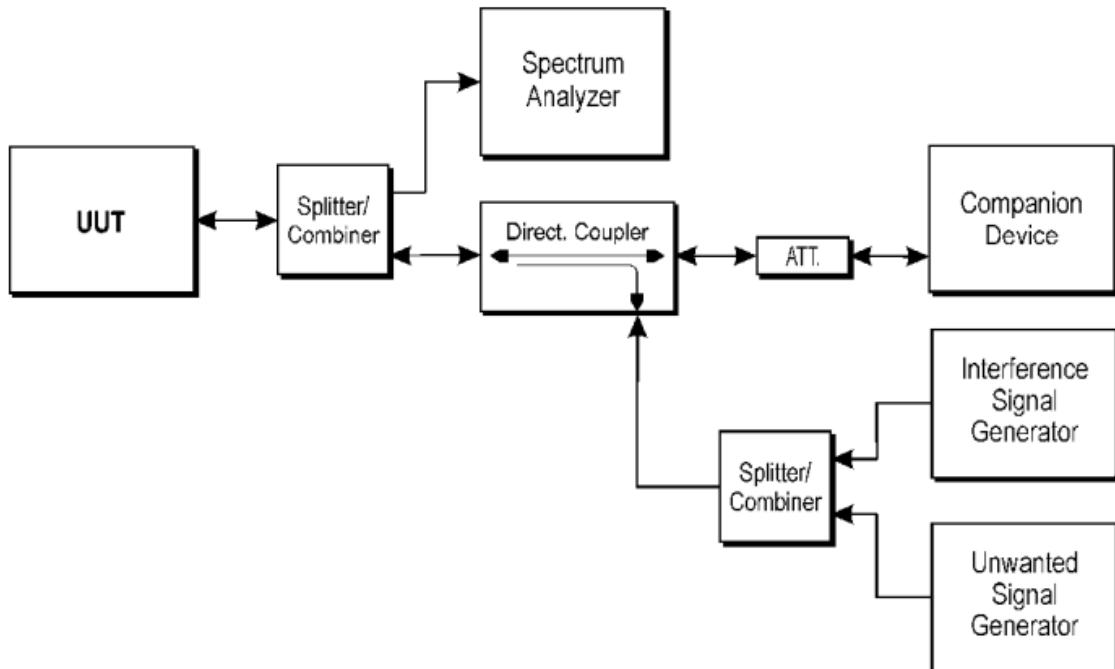
(Diagram 3)

4.5.3 For Receiver Blocking Test



(Diagram 4)

4.5.4 For Adaptivity Test



(Diagram 5)

5 Test Type and Test Results

5.1 Transmitter Parameters

5.1.1 RF output power

5.1.1.1 Limit

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.

5.1.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.2.2.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

5.1.2 Power Spectral Density

5.1.2.1 Limit

The maximum Power Spectral Density for non-FHSS equipment is 10 dBm per MHz.

5.1.2.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

T Reference to ETSI EN 300 328 V2.2.2 clause 5.4.3.2.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

5.1.3 Duty Cycle, Tx-sequence, Tx-gap

5.1.3.1 Limit

Non-FHSS equipment shall comply with the following:

- The Duty Cycle shall be equal to or less than the maximum value declared by the manufacturer.
- The Tx-sequence time shall be equal to or less than 10 ms.
- The minimum Tx-gap time following a Tx-sequence shall be equal to the duration of that proceeding Txsequence with a minimum of 3,5 ms.

5.1.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test.

5.1.3.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.2.2.

5.1.3.4 Test Result

Please refer to ANNEX A.3.

5.1.4 Medium Utilization (MU) factor

5.1.4.1 Limit

The maximum Medium Utilization factor for non-adaptive non-FHSS equipment shall be 10 %.

5.1.4.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test.

5.1.4.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.2.2.

5.1.4.4 Test Procedure

Please refer to ANNEX A.4.

5.1.5 Adaptivity (adaptive equipment using modulations other than FHSS)

5.1.5.1 Limit

Requirement	Operational Mode			
	Non-LBT based Detect and Avoid	LBT based Detect and Avoid		
		Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced as Note ²)
Minimum Clear Channel Assessment (CCA) Time	NA	18 us (see Note ¹)	(see Note ²)	18 us (see Note ¹)
Maximum Channel Occupancy (COT) Time	40 ms	1 ms to 10 ms	(see Note ²)	13 ms
Minimum Idle Period	5% of COT	5% of COT	(see Note ²)	NA
Extended CCA check	NA	NA	(see Note ²)	a random duration in the range between 18 µs and at least 160 µs
Short Control Signalling Transmissions	Maximum duty cycle of 10 % within an observation period of 50 ms (see Note ³)			
<p>Note¹: The CCA time used by the equipment shall be declared by the supplier.</p> <p>Note²: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect, as described in IEEE 802.11™-2012 [i.3] clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8.</p> <p>Note³: Adaptive equipment may or may not have Short Control Signalling Transmissions.</p> <p>Note⁴: The Idle Period is considered to be equal to the CCA or Extended CCA time defined in clause 4.3.2.6.3.2.3, step 1 and step 2.</p> <p>Note⁵: The Idle Period in between transmissions is considered to be the CCA or the Extended CCA check as there are no transmissions during this period.</p>				

Interference threshold level:

Maximum transmit power (P_H) EIRP dBm	Threshold level (TL)
20	-70 dBm / MHz

Note ¹: $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / P_{\text{out}})$ (Pout in mW e.i.r.p.).

Note ²: transmitter the CCA threshold level (TL) shall be equal or lower than -70 dBm/MHz at the input to the receiver (assuming a 0 dBi receive antenna).

Unwanted Signal parameters

Wanted signal mean power from companion device	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
sufficient to maintain the link (see Note ²)	2 395 or 2 488,5 (see Note ¹)	-35 (see Note ³)

Note ¹: The highest frequency shall be used for testing operating channels within the range 2400 MHz to 2442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483.5 MHz. See clause 5.4.6.1.

Note ²: A typical value which can be used in most cases is -50 dBm/MHz.

Note ³: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.

5.1.5.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.5.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.6.2.

5.1.5.4 Test Result

Please refer to ANNEX A.5.

5.1.6 Occupied Channel Bandwidth

5.1.6.1 Limit

The Occupied Channel Bandwidth for each hopping frequency shall fall completely within the band 2400 MHz to 2483.5 MHz.

In addition, for non-adaptive non-FHSS equipment with e.i.r.p. greater than 10 dBm, the Occupied Channel Bandwidth shall be equal to or less than 20 MHz.

5.1.6.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.6.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.7.2.

5.1.6.4 Test Result

Please refer to ANNEX A.6.

5.1.7 Transmitter unwanted emissions in the out-of-band domain

5.1.7.1 Limit

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 1.

NOTE: Within the 2 400 MHz to 2 483,5 MHz band, the Out-of-band emissions are fulfilled by compliance with the Occupied Channel Bandwidth requirement in §2.4 in this report.

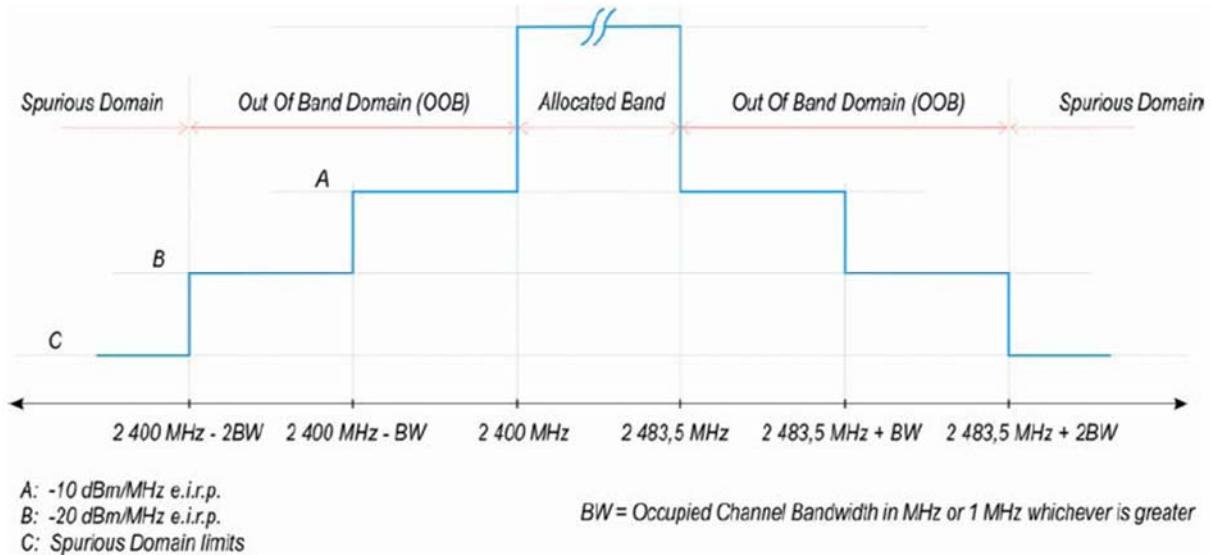


Figure 1: Transmit mask

5.1.7.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.7.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.8.2.

5.1.7.4 Test Result

Please refer to ANNEX A.7.

5.1.8 Transmitter unwanted emissions in the spurious domain

5.1.8.1 Limit

The transmitter unwanted emissions in the spurious domain shall not exceed the values in following tables:

Frequency range	Maximum power (dBm)	Bandwidth
30 MHz to 47 MHz	-36	100 kHz
47 MHz to 74 MHz	-54	100 kHz
74 MHz to 87.5 MHz	-36	100 kHz
87.5 MHz to 118 MHz	-54	100 kHz
118 MHz to 174 MHz	-36	100 kHz
174 MHz to 230 MHz	-54	100 kHz
230 MHz to 470 MHz	-36	100 kHz
470 MHz to 694 MHz	-54	100 kHz
694 MHz to 1 GHz	-36	100 kHz
1 GHz to 12.75 GHz	-30	1 MHz

5.1.8.2 Test Setup

See the section 4.5.1 and 4.5.2 (Diagram 1, 2, 3) for test setup description. The photo of test setup please refer to ANNEX B.

5.1.8.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.9.2.

5.1.8.4 Test Result

Please refer to ANNEX A.8.

5.2 Receiver Parameters

5.2.1 Receiver categories

There are three different receiver categories for which different receiver requirements and/or corresponding limits apply.

Receiver Category	
Receiver Category	Definition
category 1	Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p.
category 2	Non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % or adaptive equipment and non-adaptive with a maximum RF output power of 10 dBm e.i.r.p.
category 3	Non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % or adaptive equipment and non-adaptive with a maximum RF output power of 0 dBm e.i.r.p.

5.2.2 Receiver Spurious Emissions

5.2.2.1 Limit

Receiver spurious emissions are emissions at any frequency when the equipment is in receive mode.

The spurious emissions of the transmitter shall not exceed the values in following tables for the EUT in this report.

Frequency range	Maximum power (dBm)	Bandwidth
30 MHz to 1 GHz	-57	100 KHz
1 GHz to 12.75 GHz	-47	1 MHz

5.2.2.2 Test Setup

See the section 4.5.1 (Diagram 1) for test setup description. The photo of test setup please refer to ANNEX B.

5.2.2.3 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.10.2.

5.2.2.4 Test Result

Please refer to ANNEX A.9.

5.2.3 Receiver Blocking

Limit

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table.

Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency(MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2 380	-34	CW
	2 504	-34	CW
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 3)	2 300	-34	CW
	2 330	-34	CW
	2 360	-34	CW
	2 524	-34	CW
	2 584	-34	CW
	2 674	-34	CW

Note ¹: OCBW is in Hz.

Note ²: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. P_{min} is the minimum level of wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

Note ³: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

Note ⁴: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380	-34	CW
	2 504	-34	CW
	2 300	-34	CW
	2 584	-34	CW

NOTE ¹: OCBW is in Hz.

NOTE ²: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE ³: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency(MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380	-34	CW
	2 504	-34	CW
	2 300	-34	CW
	2 584	-34	CW

NOTE ¹: OCBW is in Hz.

NOTE ²: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 30 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE ³: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

5.2.3.1 Test Setup

See the section 4.5.3 (Diagram 4) for test setup description. The photo of test setup please refer to ANNEX B.

5.2.3.2 Test Procedure

Reference to ETSI EN 300 328 V2.2.2 clause 5.4.11.2.

5.2.3.3 Test Result

Please refer to ANNEX A.10.

5.3 Other Parameters

5.3.1 Geo-location capability

5.3.1.1 Requirements

The geographical location determined by the non-FHSS equipment as defined in clause 4.3.2.12.2 shall not be accessible to the user in a way that would allow the user to alter it.

5.3.1.2 Definition

Geo-location capability is a feature of the equipment to determine its geographical location with the purpose to configure itself according to the regulatory requirements applicable at the geographical location where it operates.

The geo-location capability may be present in the equipment or in an external device (temporary) associated with the equipment operating at the same geographical location during the initial power up of the equipment. The geographical location may also be available in equipment already installed and operating at the same geographical location.

5.3.1.3 Test Result

Not applicable.

ANNEX A TEST RESULT

A.1 RF output power

Test Data

Note 1: EIRP Power = Conducted Power + Antenna Gain

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Modulation Mode		802.11b		
Limit		20 dBm		
Test Result				
Test Method	Test Conditions		EIRP (dBm)	
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	Voltage	Temperature	Low Channel	Middle Channel
			EIRP	EIRP
	NV	NT	18.0	18.4
		LT	17.6	18.1
Test Verdict		Pass		

Modulation Mode		802.11g		
Limit		20 dBm		
Test Result				
Test Method	Test Conditions		EIRP (dBm)	
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	Voltage	Temperature	Low Channel	Middle Channel
			EIRP	EIRP
	NV	NT	16.9	18.1
		LT	16.9	18.0
Test Verdict		Pass		

Modulation Mode		802.11n-20 MHz		
Limit		20 dBm		
Test Result				
Test Method	Test Conditions		EIRP (dBm)	
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	Voltage	Temperature	Low Channel	Middle Channel
			EIRP	EIRP
	NV	NT	15.0	15.8
		LT	14.8	15.6
Test Verdict		Pass		

Modulation Mode		802.11n-40 MHz		
Limit		20 dBm		
Test Result				
Test Method	Test Conditions		EIRP (dBm)	
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	Voltage	Temperature	Low Channel	Middle Channel
			EIRP	EIRP
			NT	15.4
NV	LT	14.6	15.5	15.6
		HT	15.1	15.7
Test Verdict			Pass	

Bursts Power List

802.11b: Low Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
17.5	0.000	12.420	12.420	0.274
17.3	12.694	25.114	12.420	0.334
17.6	25.448	37.868	12.420	0.034
18.0	37.902	50.321	12.419	0.114
17.6	50.435	62.855	12.420	0.154
17.3	63.009	75.429	12.420	0.054
17.5	75.483	87.903	12.420	0.134
17.9	88.037	100.456	12.419	0.214
17.8	100.670	113.090	12.420	0.074
17.5	113.164	125.584	12.420	0.214
17.4	125.798	138.218	12.420	0.134
17.7	138.352	150.771	12.419	0.235
18.0	151.006	163.425	12.419	0.154
17.6	163.579	175.999	12.420	0.234
17.3	176.233	188.653	12.420	0.094
17.6	188.747	201.167	12.420	0.074
18.0	201.241	213.660	12.419	0.154
17.7	213.814	226.234	12.420	0.114
17.3	226.348	238.768	12.420	0.114
17.5	238.882	251.302	12.420	0.134
17.8	251.436	263.855	12.419	0.075
17.9	263.930	276.349	12.419	0.174
17.5	276.523	288.943	12.420	0.174
17.3	289.117	301.537	12.420	0.174
17.6	301.711	314.130	12.419	0.135
18.0	314.265	326.684	12.419	0.134
17.6	326.818	339.238	12.420	0.274
17.3	339.512	351.932	12.420	0.314
17.6	352.246	364.666	12.420	0.334
18.0	365.000	377.419	12.419	0.174
17.7	377.593	390.013	12.420	0.254
17.4	390.267	402.687	12.420	0.254
17.4	402.941	415.361	12.420	0.294
17.8	415.655	428.074	12.419	0.135

802.11b: Middle Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
18.0	0.000	12.420	12.420	0.094
17.8	12.514	24.934	12.420	0.274
18.1	25.208	37.628	12.420	0.274
18.5	37.902	50.321	12.419	0.054
18.2	50.375	62.795	12.420	0.174
17.9	62.969	75.389	12.420	0.294
17.9	75.683	88.103	12.420	0.054
18.2	88.157	100.576	12.419	0.335
18.5	100.911	113.330	12.419	0.174
18.1	113.504	125.924	12.420	0.154
17.8	126.078	138.498	12.420	0.134
18.0	138.632	151.052	12.420	0.074
18.5	151.126	163.545	12.419	0.334
18.3	163.879	176.299	12.420	0.294
17.9	176.593	189.013	12.420	0.314
17.9	189.327	201.747	12.420	0.294
18.2	202.041	214.460	12.419	0.315
18.5	214.775	227.194	12.419	0.214
18.1	227.408	239.828	12.420	0.194
17.8	240.022	252.442	12.420	0.294
18.0	252.736	265.156	12.420	0.174
18.4	265.330	277.749	12.419	0.114
18.3	277.863	290.283	12.420	0.154
17.9	290.437	302.857	12.420	0.214
17.9	303.071	315.491	12.420	0.334
18.2	315.825	328.244	12.419	0.115
18.5	328.359	340.778	12.419	0.174
18.1	340.952	353.372	12.420	0.034
17.8	353.406	365.826	12.420	0.154
18.0	365.980	378.400	12.420	0.234
18.4	378.634	391.053	12.419	0.155
18.4	391.208	403.627	12.419	0.214
18.0	403.841	416.261	12.420	0.034
17.8	416.295	428.715	12.420	0.154

802.11b: High Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
18.2	0.000	12.419	12.419	0.174
17.8	12.593	25.013	12.420	0.274
17.7	25.287	37.707	12.420	0.074
18.3	37.781	50.200	12.419	0.335
18.2	50.535	62.954	12.419	0.294
17.8	63.248	75.668	12.420	0.094
17.7	75.762	88.182	12.420	0.134
18.1	88.316	100.735	12.419	0.215
18.2	100.950	113.369	12.419	0.134
17.8	113.503	125.923	12.420	0.094
18.3	126.017	138.437	12.420	0.094
18.1	138.531	150.950	12.419	0.335
18.2	151.285	163.704	12.419	0.094
17.8	163.798	176.218	12.420	0.154
17.7	176.372	188.792	12.420	0.154
18.0	188.946	201.365	12.419	0.075
18.2	201.440	213.859	12.419	0.174
17.8	214.033	226.453	12.420	0.274
17.7	226.727	239.147	12.420	0.074
18.0	239.221	251.640	12.419	0.155
18.3	251.795	264.214	12.419	0.154
17.8	264.368	276.788	12.420	0.054
17.6	276.842	289.262	12.420	0.294
18.0	289.556	301.975	12.419	0.175
18.3	302.150	314.569	12.419	0.074
18.3	314.643	327.063	12.420	0.234
17.6	327.297	339.717	12.420	0.274
18.0	339.991	352.410	12.419	0.175
18.3	352.585	365.004	12.419	0.294
17.8	365.298	377.718	12.420	0.074
17.6	377.792	390.212	12.420	0.274
18.3	390.486	402.905	12.419	0.055
18.3	402.960	415.379	12.419	0.034
17.9	415.413	427.833	12.420	0.334

802.11g: Low Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
16.9	0.000	2.066	2.066	0.174
16.9	2.240	4.306	2.066	0.234
17.0	4.540	6.606	2.066	0.134
17.0	6.740	8.806	2.066	0.034
17.1	8.840	10.906	2.066	0.034
17.1	10.940	13.006	2.066	0.154
17.1	13.160	15.225	2.065	0.335
17.1	15.560	17.625	2.065	0.195
17.0	17.820	19.885	2.065	0.155
17.0	20.040	22.105	2.065	0.075
17.0	22.180	24.245	2.065	0.075
17.0	24.320	26.385	2.065	0.095
17.0	26.480	28.545	2.065	0.115
17.0	28.660	30.725	2.065	0.335
17.0	31.060	33.125	2.065	0.115
17.0	33.240	35.305	2.065	0.195
17.0	35.500	37.565	2.065	0.135
17.0	37.700	39.765	2.065	0.335
17.1	40.100	42.165	2.065	0.115
17.1	42.280	44.345	2.065	0.055
17.1	44.400	46.465	2.065	0.254
17.0	46.719	48.785	2.066	0.274
17.0	49.059	51.125	2.066	0.334
17.0	51.459	53.525	2.066	0.134
17.0	53.659	55.725	2.066	0.254
17.0	55.979	58.045	2.066	0.314
17.0	58.359	60.425	2.066	0.034
17.0	60.459	62.525	2.066	0.194
17.0	62.719	64.785	2.066	0.234
17.0	65.019	67.084	2.065	0.235
17.0	67.319	69.384	2.065	0.255
17.0	69.639	71.704	2.065	0.335
17.1	72.039	74.104	2.065	0.315
17.1	74.419	76.484	2.065	0.155

802.11g: Middle Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
18.1	0.000	2.065	2.065	0.035
18.0	2.100	4.165	2.065	0.255
18.1	4.420	6.485	2.065	0.255
18.1	6.740	8.805	2.065	0.094
18.0	8.899	10.965	2.066	0.234
18.0	11.199	13.265	2.066	0.274
18.0	13.539	15.605	2.066	0.334
18.1	15.939	18.005	2.066	0.314
18.1	18.319	20.385	2.066	0.314
18.1	20.699	22.765	2.066	0.234
18.1	22.999	25.065	2.066	0.154
18.1	25.219	27.284	2.065	0.155
18.1	27.439	29.504	2.065	0.255
18.1	29.759	31.824	2.065	0.135
18.0	31.959	34.024	2.065	0.095
18.0	34.119	36.184	2.065	0.335
18.1	36.519	38.584	2.065	0.275
18.1	38.859	40.924	2.065	0.155
18.1	41.079	43.144	2.065	0.335
18.1	43.479	45.544	2.065	0.175
18.1	45.719	47.784	2.065	0.335
18.1	48.119	50.184	2.065	0.275
18.1	50.459	52.524	2.065	0.215
18.1	52.739	54.804	2.065	0.175
18.1	54.979	57.044	2.065	0.215
18.1	57.259	59.324	2.065	0.175
18.1	59.499	61.564	2.065	0.215
18.1	61.779	63.844	2.065	0.275
18.1	64.119	66.184	2.065	0.094
18.0	66.278	68.344	2.066	0.054
18.0	68.398	70.464	2.066	0.114
18.0	70.578	72.644	2.066	0.114
18.0	72.758	74.824	2.066	0.174
18.0	74.998	77.064	2.066	0.154

802.11g: High Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
18.5	0.000	2.065	2.065	0.275
18.5	2.340	4.405	2.065	0.335
18.5	4.740	6.805	2.065	0.275
18.5	7.080	9.145	2.065	0.155
18.5	9.300	11.365	2.065	0.335
18.6	11.700	13.765	2.065	0.075
18.5	13.840	15.905	2.065	0.155
18.5	16.060	18.125	2.065	0.235
18.5	18.360	20.425	2.065	0.255
18.5	20.680	22.745	2.065	0.235
18.6	22.980	25.045	2.065	0.215
18.6	25.260	27.325	2.065	0.315
18.6	27.640	29.705	2.065	0.115
18.6	29.820	31.885	2.065	0.035
18.5	31.920	33.985	2.065	0.195
18.5	34.180	36.245	2.065	0.115
18.5	36.360	38.425	2.065	0.214
18.5	38.639	40.705	2.066	0.214
18.5	40.919	42.985	2.066	0.134
18.5	43.119	45.185	2.066	0.154
18.5	45.339	47.405	2.066	0.274
18.5	47.679	49.745	2.066	0.214
18.5	49.959	52.025	2.066	0.194
18.5	52.219	54.285	2.066	0.334
18.5	54.619	56.685	2.066	0.114
18.5	56.799	58.864	2.065	0.115
18.5	58.979	61.044	2.065	0.135
18.5	61.179	63.244	2.065	0.075
18.5	63.319	65.384	2.065	0.075
18.5	65.459	67.524	2.065	0.175
18.5	67.699	69.764	2.065	0.195
18.5	69.959	72.024	2.065	0.255
18.5	72.279	74.344	2.065	0.035
18.5	74.379	76.444	2.065	0.295

802.11n-20 MHz: Low Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
14.9	0.000	1.921	1.921	0.315
15.0	2.236	4.157	1.921	0.235
14.9	4.392	6.314	1.922	0.134
14.9	6.448	8.369	1.921	0.255
15.0	8.624	10.545	1.921	0.155
14.9	10.700	12.621	1.921	0.255
15.0	12.876	14.797	1.921	0.115
14.9	14.912	16.833	1.921	0.095
14.9	16.928	18.849	1.921	0.295
15.0	19.144	21.065	1.921	0.135
15.0	21.200	23.121	1.921	0.295
15.0	23.416	25.337	1.921	0.055
14.9	25.392	27.313	1.921	0.095
14.9	27.408	29.329	1.921	0.275
15.0	29.604	31.525	1.921	0.175
15.0	31.700	33.621	1.921	0.255
15.0	33.876	35.797	1.921	0.195
15.0	35.992	37.913	1.921	0.175
15.0	38.088	40.009	1.921	0.295
15.0	40.304	42.225	1.921	0.134
15.0	42.359	44.281	1.922	0.094
15.0	44.375	46.297	1.922	0.034
14.9	46.331	48.253	1.922	0.274
15.0	48.527	50.449	1.922	0.054
14.9	50.503	52.425	1.922	0.154
14.9	52.579	54.500	1.921	0.115
14.9	54.615	56.536	1.921	0.075
14.9	56.611	58.532	1.921	0.055
14.9	58.587	60.508	1.921	0.155
14.9	60.663	62.584	1.921	0.055
14.9	62.639	64.560	1.921	0.135
14.9	64.695	66.616	1.921	0.335
14.9	66.951	68.872	1.921	0.135
14.9	69.007	70.928	1.921	0.215

802.11n-20 MHz: Middle Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
15.8	0.000	1.921	1.921	0.215
15.8	2.136	4.057	1.921	0.035
15.7	4.092	6.013	1.921	0.195
15.8	6.208	8.129	1.921	0.335
15.8	8.464	10.385	1.921	0.115
15.8	10.500	12.421	1.921	0.215
15.8	12.636	14.557	1.921	0.275
15.8	14.832	16.753	1.921	0.135
15.8	16.888	18.809	1.921	0.195
15.8	19.004	20.925	1.921	0.135
15.7	21.060	22.981	1.921	0.115
15.7	23.096	25.017	1.921	0.195
15.7	25.212	27.133	1.921	0.195
15.7	27.328	29.249	1.921	0.075
15.7	29.324	31.245	1.921	0.155
15.7	31.400	33.321	1.921	0.175
15.7	33.496	35.417	1.921	0.215
15.7	35.632	37.553	1.921	0.115
15.7	37.668	39.589	1.921	0.255
15.7	39.844	41.765	1.921	0.334
15.7	42.099	44.021	1.922	0.054
15.7	44.075	45.997	1.922	0.134
15.7	46.131	48.053	1.922	0.034
15.7	48.087	50.008	1.921	0.155
15.7	50.163	52.085	1.922	0.314
15.7	52.399	54.320	1.921	0.235
15.7	54.555	56.476	1.921	0.035
15.7	56.511	58.432	1.921	0.075
15.7	58.507	60.428	1.921	0.255
15.8	60.683	62.604	1.921	0.115
15.7	62.719	64.640	1.921	0.335
15.8	64.975	66.896	1.921	0.335
15.8	67.231	69.152	1.921	0.055
15.8	69.207	71.128	1.921	0.255

802.11n-20 MHz: High Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
16.1	0.000	1.921	1.921	0.195
16.1	2.116	4.037	1.921	0.135
16.1	4.172	6.093	1.921	0.315
16.2	6.408	8.329	1.921	0.195
16.1	8.524	10.445	1.921	0.195
16.1	10.640	12.561	1.921	0.035
16.1	12.596	14.517	1.921	0.215
16.1	14.732	16.653	1.921	0.155
16.1	16.808	18.728	1.920	0.335
16.1	19.063	20.985	1.922	0.034
16.0	21.019	22.941	1.922	0.054
16.0	22.995	24.916	1.921	0.275
16.2	25.191	27.112	1.921	0.035
16.0	27.147	29.068	1.921	0.215
16.1	29.283	31.204	1.921	0.095
16.0	31.299	33.220	1.921	0.275
16.1	33.495	35.416	1.921	0.335
16.1	35.751	37.672	1.921	0.115
16.1	37.787	39.708	1.921	0.035
16.1	39.743	41.664	1.921	0.195
16.1	41.859	43.780	1.921	0.195
16.1	43.975	45.896	1.921	0.255
16.1	46.151	48.072	1.921	0.135
16.1	48.207	50.128	1.921	0.175
16.1	50.303	52.224	1.921	0.215
16.1	52.439	54.360	1.921	0.095
16.1	54.455	56.376	1.921	0.275
16.1	56.651	58.572	1.921	0.335
16.2	58.907	60.828	1.921	0.115
16.2	60.943	62.864	1.921	0.275
16.1	63.139	65.060	1.921	0.075
16.1	65.135	67.056	1.921	0.055
16.1	67.111	69.032	1.921	0.195
16.1	69.227	71.148	1.921	0.315

802.11n-40 MHz: Low Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
15.0	0.000	0.945	0.945	0.215
15.0	1.160	2.106	0.946	0.094
15.0	2.200	3.146	0.946	0.334
15.0	3.480	4.426	0.946	0.134
15.1	4.560	5.505	0.945	0.155
15.0	5.660	6.605	0.945	0.335
15.0	6.940	7.885	0.945	0.175
15.0	8.060	9.005	0.945	0.195
15.0	9.200	10.146	0.946	0.194
15.0	10.340	11.285	0.945	0.335
15.0	11.620	12.565	0.945	0.315
15.1	12.880	13.825	0.945	0.135
15.0	13.960	14.905	0.945	0.235
15.0	15.140	16.085	0.945	0.135
15.0	16.220	17.165	0.945	0.195
15.0	17.360	18.305	0.945	0.135
15.0	18.440	19.385	0.945	0.215
15.0	19.600	20.545	0.945	0.155
15.1	20.700	21.645	0.945	0.115
15.0	21.760	22.705	0.945	0.055
15.0	22.760	23.705	0.945	0.035
15.0	23.740	24.685	0.945	0.095
15.0	24.780	25.725	0.945	0.215
15.0	25.940	26.885	0.945	0.115
15.0	27.000	27.945	0.945	0.175
15.0	28.120	29.065	0.945	0.055
15.0	29.120	30.065	0.945	0.275
15.0	30.340	31.285	0.945	0.135
15.0	31.420	32.365	0.945	0.255
15.0	32.620	33.565	0.945	0.055
15.0	33.620	34.565	0.945	0.275
15.1	34.840	35.785	0.945	0.215
15.1	36.000	36.945	0.945	0.135
15.1	37.080	38.025	0.945	0.095

802.11n-40 MHz: Middle Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
15.4	0.000	0.945	0.945	0.155
15.4	1.100	2.045	0.945	0.035
15.4	2.080	3.025	0.945	0.255
15.5	3.280	4.225	0.945	0.175
15.4	4.400	5.345	0.945	0.275
15.4	5.620	6.565	0.945	0.335
15.4	6.900	7.845	0.945	0.055
15.4	7.900	8.845	0.945	0.195
15.4	9.040	9.985	0.945	0.094
15.4	10.079	11.025	0.946	0.114
15.3	11.139	12.085	0.946	0.254
15.5	12.339	13.285	0.946	0.214
15.5	13.499	14.445	0.946	0.094
15.3	14.539	15.485	0.946	0.334
15.4	15.819	16.765	0.946	0.134
15.4	16.899	17.845	0.946	0.154
15.4	17.999	18.945	0.946	0.334
15.4	19.279	20.225	0.946	0.174
15.4	20.399	21.345	0.946	0.194
15.4	21.539	22.485	0.946	0.194
15.4	22.679	23.625	0.946	0.334
15.4	23.959	24.905	0.946	0.314
15.4	25.219	26.164	0.945	0.135
15.4	26.299	27.244	0.945	0.235
15.4	27.479	28.425	0.946	0.134
15.5	28.559	29.504	0.945	0.195
15.4	29.699	30.644	0.945	0.135
15.4	30.779	31.724	0.945	0.215
15.4	31.939	32.884	0.945	0.155
15.4	33.039	33.984	0.945	0.115
15.4	34.099	35.044	0.945	0.055
15.5	35.099	36.044	0.945	0.035
15.3	36.079	37.024	0.945	0.095
15.3	37.119	38.064	0.945	0.215

802.11n-40 MHz: High Channel

Burst RMS Power	Start Time	Stop Time	Tx_on	Tx_off
dBm	ms	ms	ms	ms
15.6	0.000	0.945	0.945	0.035
15.6	0.980	1.925	0.945	0.255
15.6	2.180	3.125	0.945	0.295
15.6	3.420	4.365	0.945	0.295
15.7	4.660	5.605	0.945	0.095
15.6	5.700	6.645	0.945	0.155
15.6	6.800	7.745	0.945	0.075
15.6	7.820	8.765	0.945	0.335
15.7	9.100	10.045	0.945	0.195
15.6	10.240	11.185	0.945	0.215
15.7	11.400	12.345	0.945	0.175
15.6	12.520	13.465	0.945	0.215
15.7	13.680	14.625	0.945	0.335
15.7	14.960	15.905	0.945	0.095
15.6	16.000	16.945	0.945	0.175
15.6	17.120	18.065	0.945	0.155
15.6	18.220	19.165	0.945	0.255
15.6	19.420	20.365	0.945	0.195
15.6	20.560	21.505	0.945	0.115
15.6	21.620	22.565	0.945	0.095
15.6	22.660	23.605	0.945	0.075
15.6	23.680	24.625	0.945	0.335
15.6	24.960	25.905	0.945	0.135
15.6	26.040	26.985	0.945	0.035
15.6	27.020	27.965	0.945	0.055
15.5	28.020	28.965	0.945	0.274
15.6	29.239	30.185	0.946	0.114
15.6	30.299	31.245	0.946	0.154
15.6	31.399	32.345	0.946	0.154
15.6	32.499	33.445	0.946	0.114
15.6	33.559	34.505	0.946	0.054
15.5	34.559	35.505	0.946	0.074
15.5	35.579	36.525	0.946	0.294
15.6	36.819	37.765	0.946	0.174

A.2 Power spectral density

Measuring Parameter

Frequency Range		
2400 MHz to 2483.5 MHz	RBW (MHz)	10 kHz
	VBW (MHz)	30 kHz
	Sweep points	8351
	Detector mode	RMS
	Trace mode	Max Hold
	Sweep time	100s

Test Data

Note 1: The Power density is ERIP Power density, which is contain antenna gain

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Modulation Mode		802.11b		
Limit		10 dBm/MHz		
Test Result				
Test Method	Test Conditions		Power density (dBm/MHz)	
	Temperature	Voltage	Low Channel	Middle Channel
			Power Spectral density	Power Spectral density
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	NT	NV	9.4	9.8
Test Verdict		Pass		

Modulation Mode		802.11g		
Limit		10 dBm/MHz		
Test Result				
Test Method	Test Conditions		Power density (dBm/MHz)	
	Temperature	Voltage	Low Channel	Middle Channel
			Power Spectral density	Power Spectral density
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	NT	NV	5.2	6.5
Test Verdict		Pass		

Modulation Mode		802.11n-20 MHz		
Limit		10 dBm/MHz		
Test Result				
Test Method	Test Conditions		Power density (dBm/MHz)	
	Temperature	Voltage	Low Channel	Middle Channel
			Power Spectral density	Power Spectral density
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	NT	NV	3.1	3.9
Test Verdict		Pass		

Modulation Mode		802.11n-40 MHz		
Limit		10 dBm/MHz		
Test Result				
Test Method	Test Conditions		Power density (dBm/MHz)	
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	Temperature	Voltage	Low Channel	Middle Channel
			Power Spectral density	Power Spectral density
	NT	NV	0.4	0.8
Test Verdict		Pass		

A.3 Duty Cycle, Tx-sequence, Tx-gap

Note: The maximum value of Duty Cycle declared by the supplier.

Test Data

Duty Cycle (%)	Limit Duty Cycle (%) ^{Note1}	Number of Bursts	Minimum Tx-On (ms)	Maximum Tx-On (ms)	Minimum Tx-Off (ms)	Maximum Tx-Off (ms)	Measurement Time (ms)	Comment
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Note: Not applicable.

A.4 Medium Utilization (MU) factor

Medium Utilization (MU) (%)	Limit Medium Utilization (MU) (%)	Verdict
--	10	--

Note: Not applicable.

A.5 Adaptivity (adaptive equipment using modulations other than FHSS)

Test Method and Interference threshold level

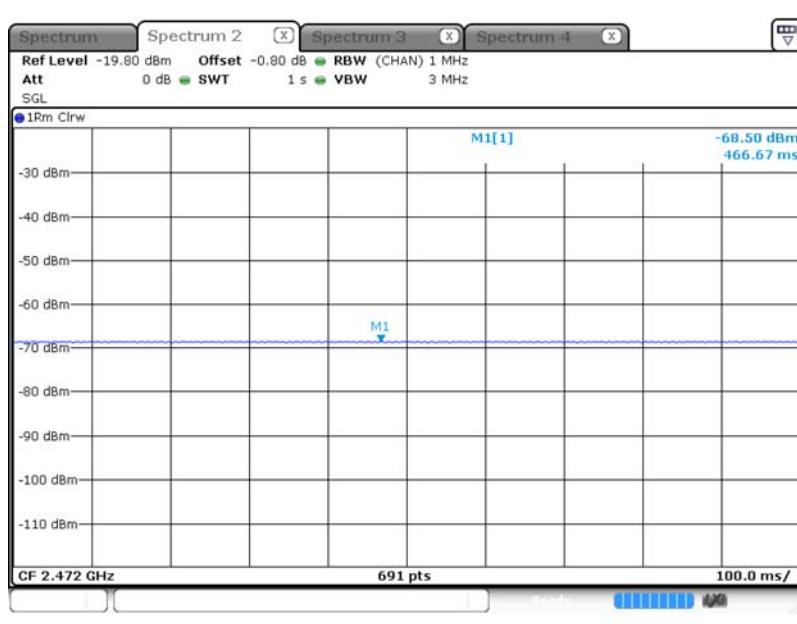
Test Method	Interference threshold level
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	The maximum EIRP power is 18.6 dBm and antenna gain is 2.3 dBi. Threshold level= $-70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / P_{\text{out}}) = -68.6 \text{ dBm/MHz}$. The interference signal level to the UUT is -68.6 dBm/MHz

Test plot

99% Bandwidth



Threshold level



Test DataTest step 1

Test Conditions		Test Result							
Temperature	Voltage	Test Mode	Frequency (MHz)	COT (ms)	Limit (ms)	CCA Time (μs)	Idle Period (ms)	Limit (μs)	
NT	NV	802.11b	2412	18.00	12.42	13	34	0.034	
			2472	18.20	12.42	13	34	0.034	
		802.11g	2412	16.90	2.07	13	34	0.034	
			2472	18.50	2.07	13	34	0.034	
		802.11n20	2412	15.00	1.92	13	34	0.034	
			2472	16.20	1.92	13	34	0.034	
		802.11n40	2422	15.00	0.95	13	34	0.034	
			2462	15.50	0.95	13	34	0.034	
Note: Wanted signal mean power from companion device is -50 dBm/MHz.									
Test Verdict	Pass								

Test step 2

Note: The least monitoring time during the adaptivity test is 60s, please refer to the test plot as shown below.

Test step 2 2nd

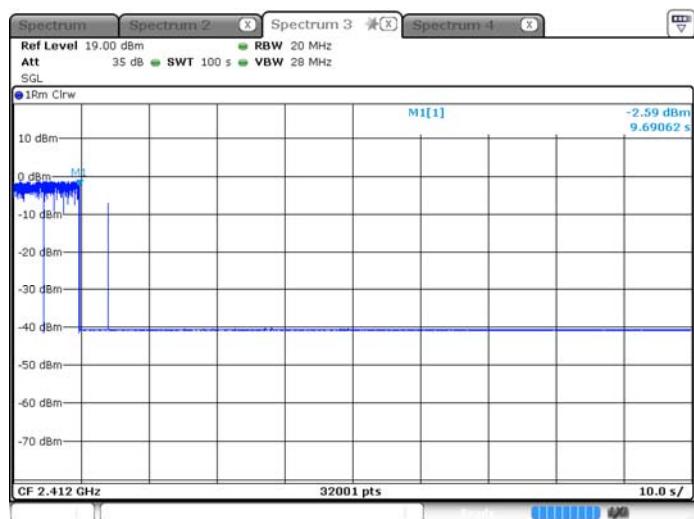
Temperature	Voltage	Test Mode	Frequency (MHz)	Number of Bursts	Short Signalling (%)	Limit (%)
NT	NV	802.11b	2412	1	7.3914	10
			2472	2	4.6376	10
		802.11g	2412	1	0.7246	10
			2472	2	4.9276	10
		802.11n20	2412	1	1.4492	10
			2472	2	5.2172	10
		802.11n40	2422	0	0	10
			2462	0	0	10

The step 3

Note: The least monitoring time during the blocking test is 60s, please refer to the test plot as shown below.

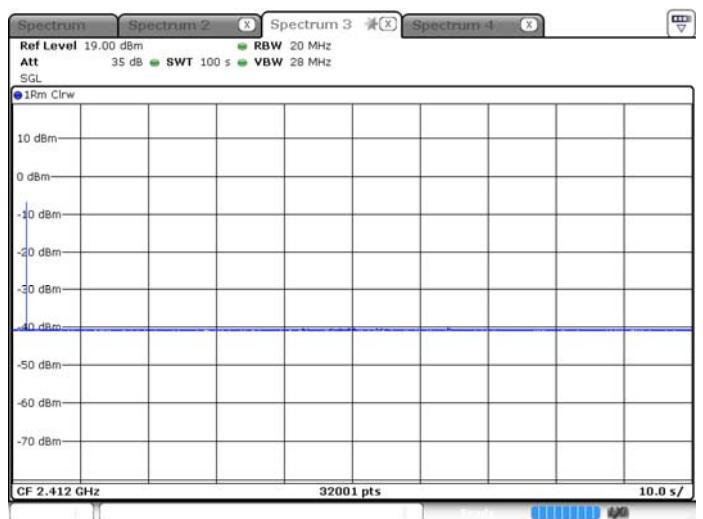
Test Plots

802.11b: Low Channel Step 2 Interferer on / Blocker off



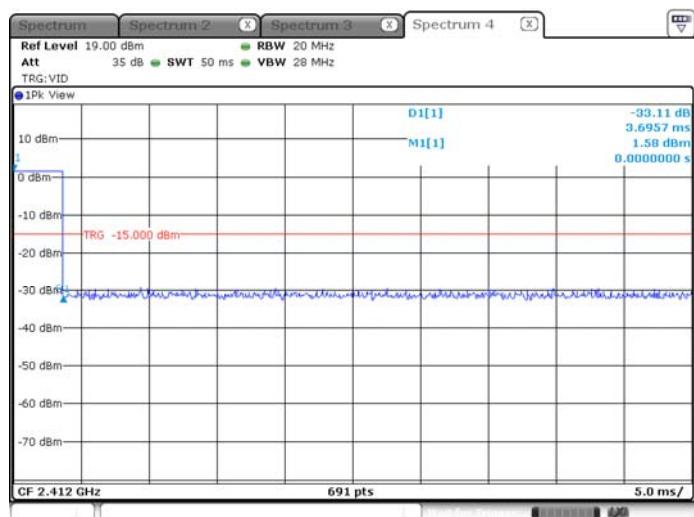
Date: 10.JUL.2021 04:42:41

802.11b: Low Channel Step 3 Interferer on / Blocker on



Date: 10.JUL.2021 04:46:35

802.11b: Low Channel Short Signalling



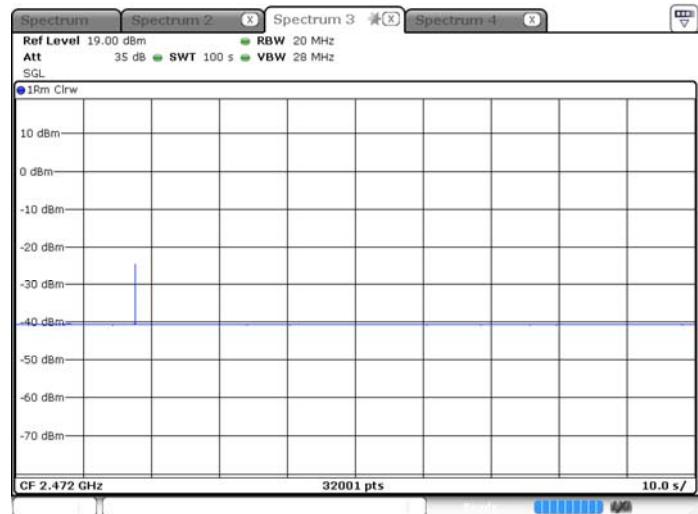
Date: 10.JUL.2021 04:50:34

802.11b: High Channel Step 2 Interferer on / Blocker off



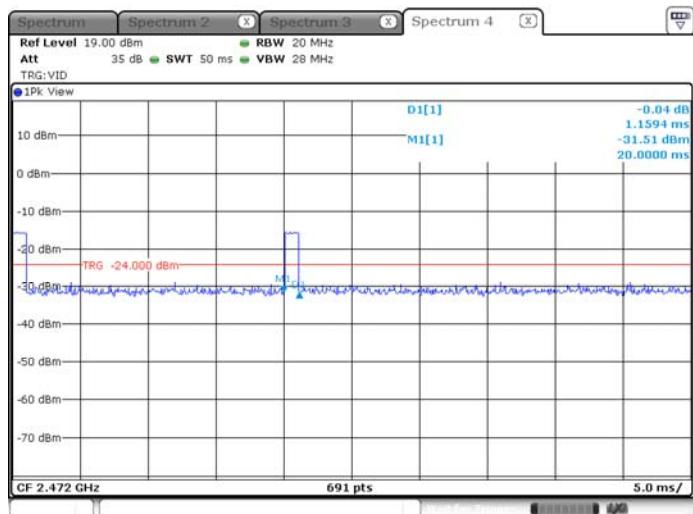
Date: 10.JUL.2021 04:58:13

802.11b: High Channel Step 3 Interferer on / Blocker on



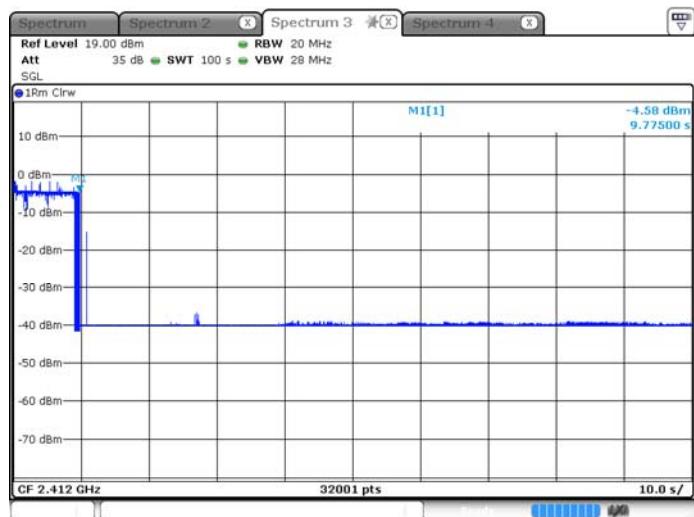
Date: 10.JUL.2021 05:00:20

802.11b: High Channel Short Signalling



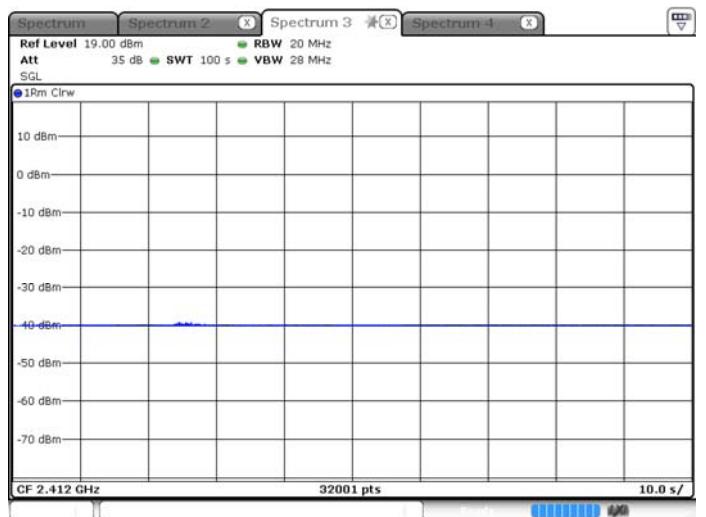
Date: 10.JUL.2021 05:02:00

802.11g: Low Channel Step 2 Interferer on / Blocker off



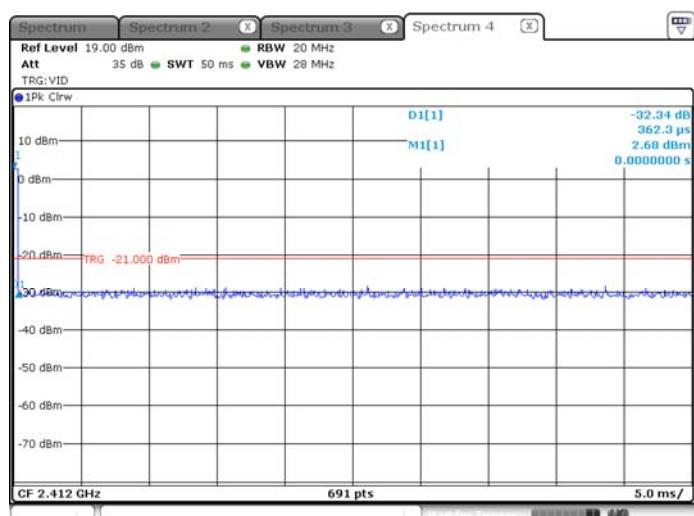
Date: 10.JUL.2021 05:11:46

802.11g: Low Channel Step 3 Interferer on / Blocker on



Date: 10.JUL.2021 05:14:02

802.11g: Low Channel Short Signalling



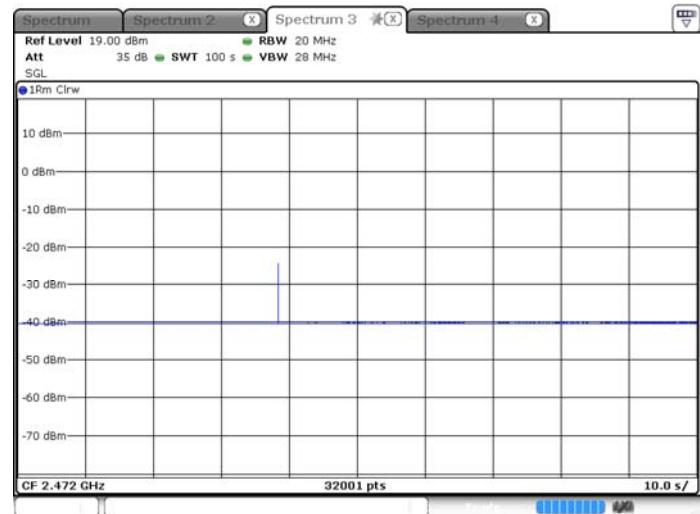
Date: 10.JUL.2021 05:15:02

802.11g: High Channel Step 2 Interferer on / Blocker off



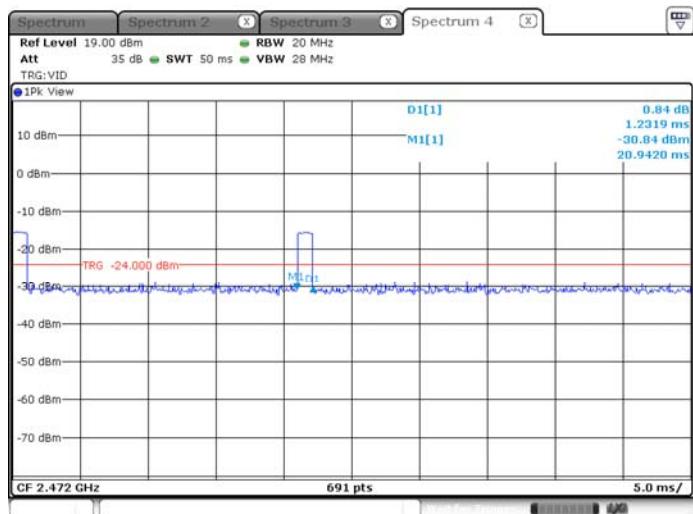
Date: 10.JUL.2021 05:21:57

802.11g: High Channel Step 3 Interferer on / Blocker on



Date: 10.JUL.2021 05:24:35

802.11g: High Channel Short Signalling



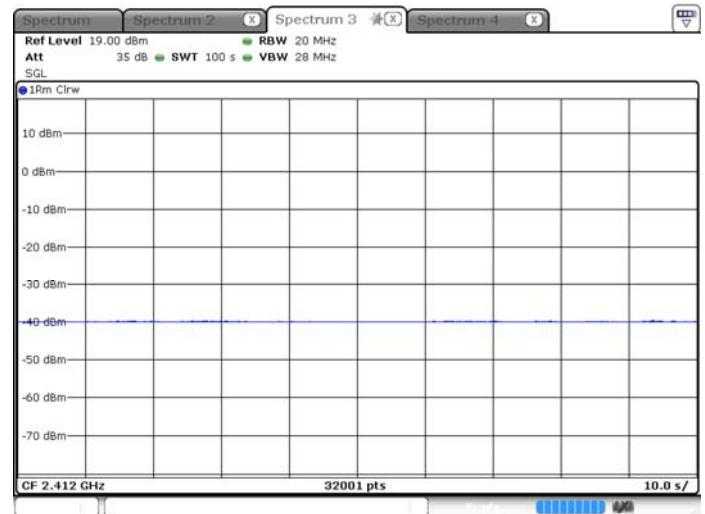
Date: 10.JUL.2021 05:25:44

802.11n-20: Low Channel Step 2 Interferer on / Blocker off



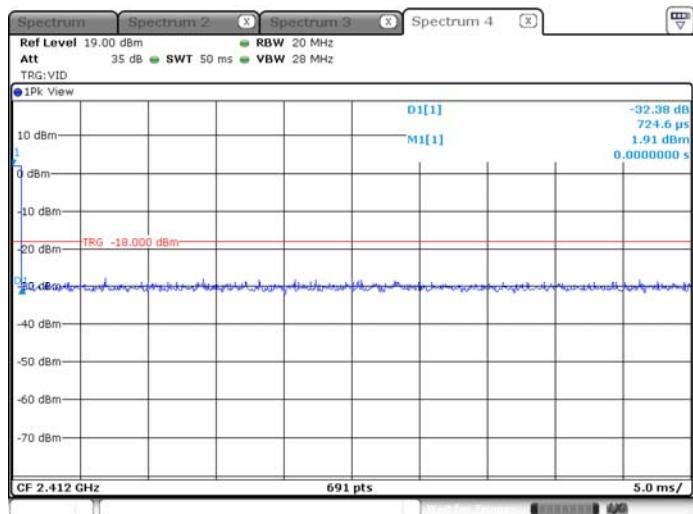
Date: 10.JUL.2021 05:28:57

802.11n-20: Low Channel Step 3 Interferer on / Blocker on



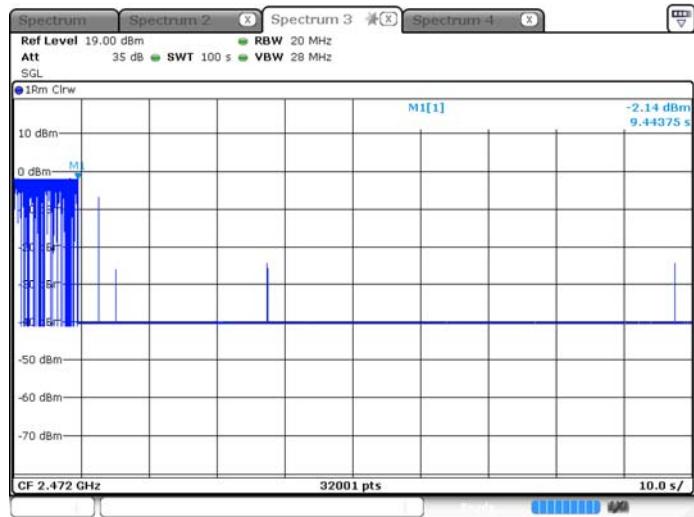
Date: 10.JUL.2021 05:31:41

802.11n-20: Low Channel Short Signalling



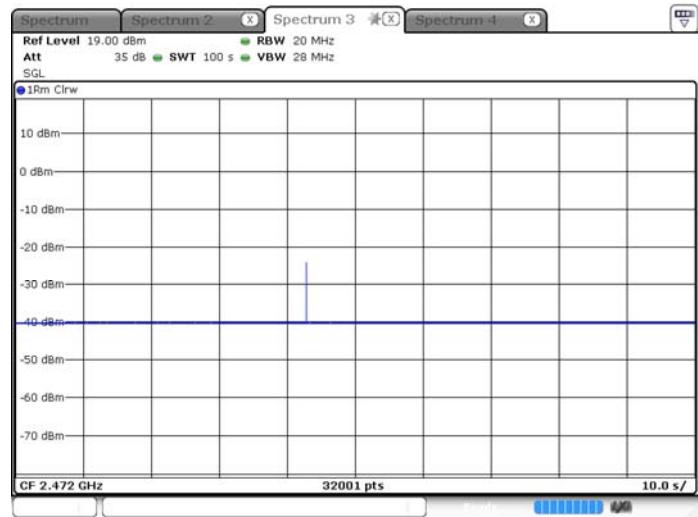
Date: 10.JUL.2021 05:32:35

802.11n-20: High Channel Step 2 Interferer on / Blocker off



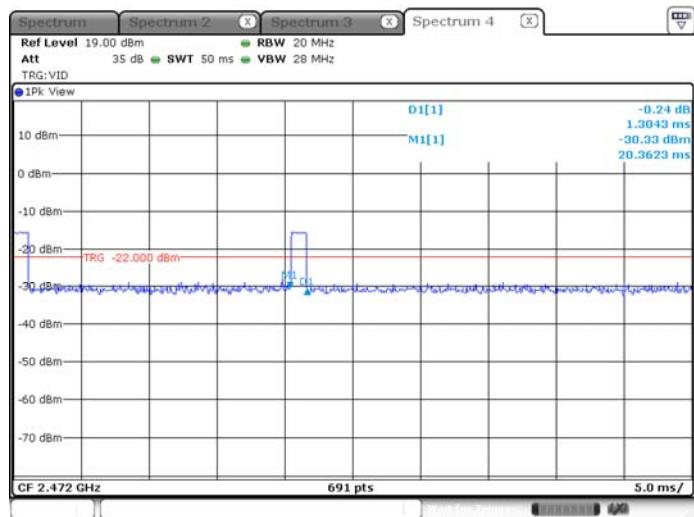
Date: 10.JUL.2021 05:35:34

802.11n-20: High Channel Step 3 Interferer on / Blocker on



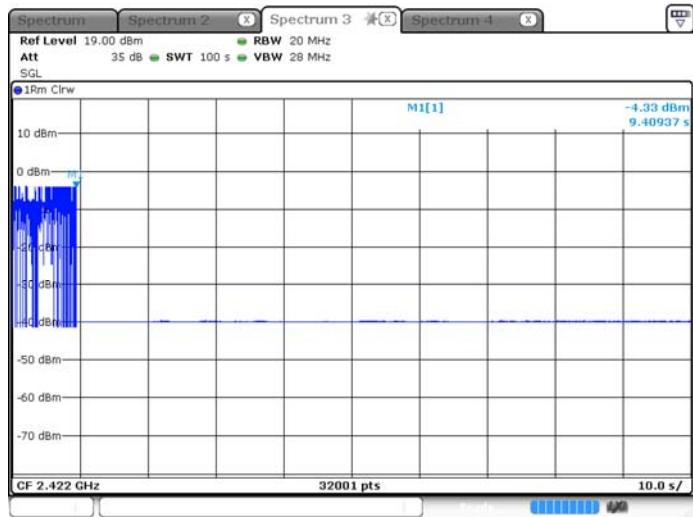
Date: 10.JUL.2021 05:37:30

802.11n-20: High Channel Short Signalling



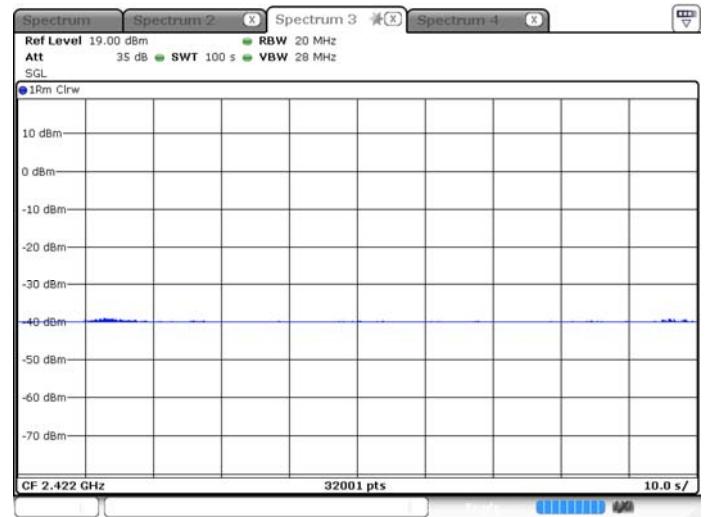
Date: 10.JUL.2021 05:38:37

802.11n-40: Low Channel Step 2 Interferer on / Blocker off



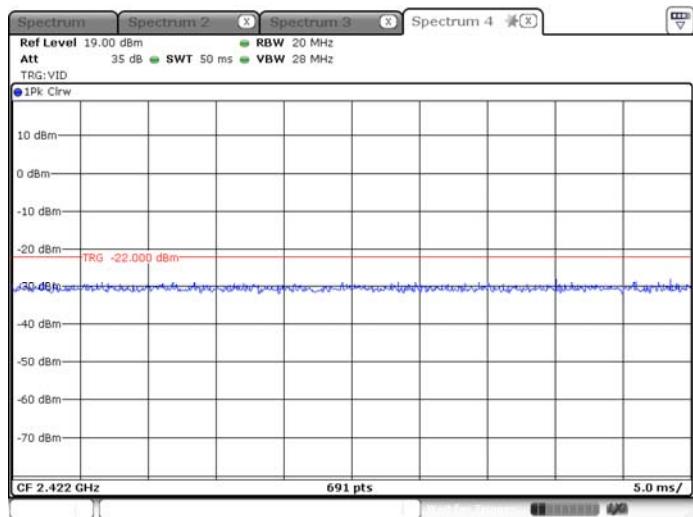
Date: 10.JUL.2021 05:42:43

802.11n-40: Low Channel Step 3 Interferer on / Blocker on



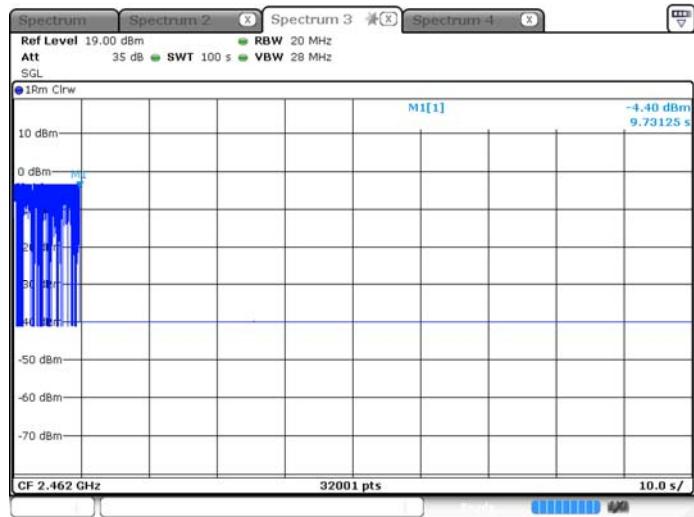
Date: 10.JUL.2021 05:44:31

802.11n-40: Low Channel Short Signalling



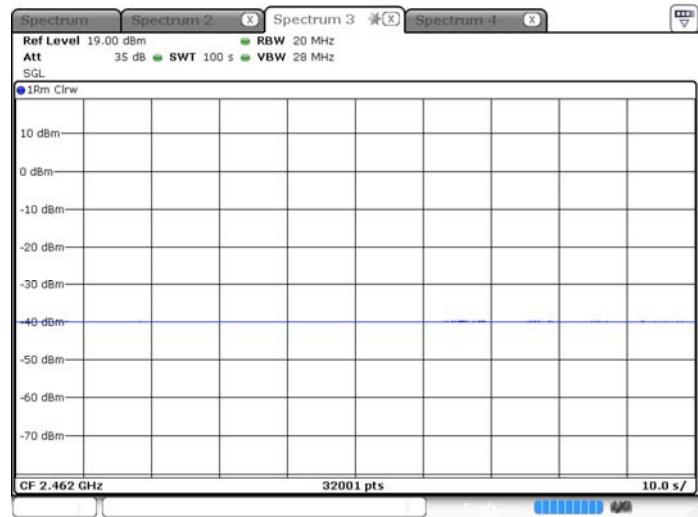
Date: 10.JUL.2021 05:44:47

802.11n-40: High Channel Step 2 Interferer on / Blocker off



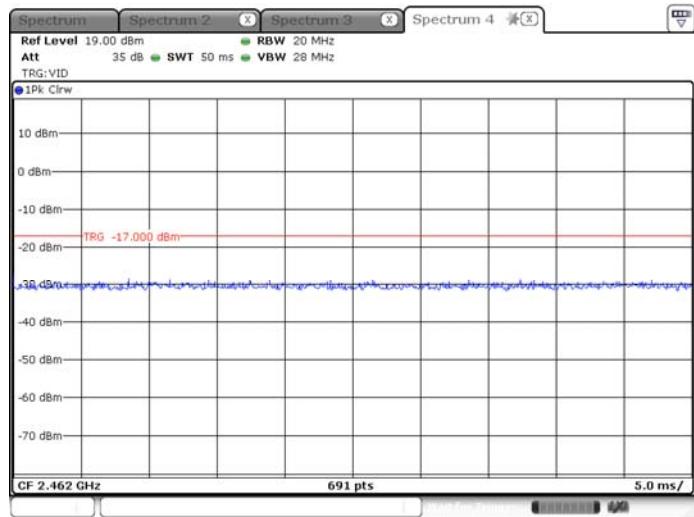
Date: 10.JUL.2021 05:48:21

802.11n-40: High Channel Step 3 Interferer on / Blocker on



Date: 10.JUL.2021 05:50:06

802.11n-40: High Channel Short Signalling



Date: 10.JUL.2021 05:50:17

A.6 Occupied Channel Bandwidth

Measuring Parameter

Centre Frequency	The centre frequency of the channel under test
RBW (MHz)	1 MHz
VBW (MHz)	3 MHz
Span (MHz)	40 MHz (for 20 MHz channel), 80 MHz (for 40 MHz channel)
Detector mode	RMS
Trace mode	Max Hold
Sweep time	Auto
Test Method	<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted

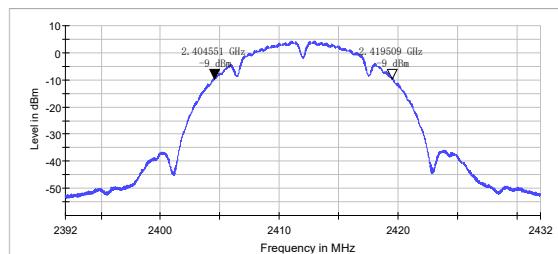
Test Data

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

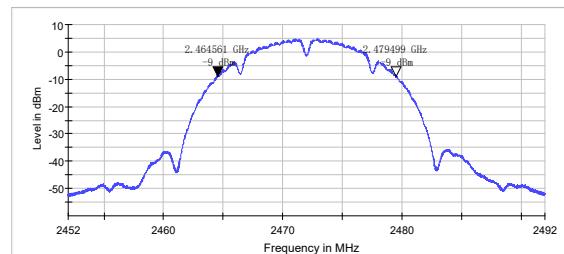
Test Conditions		Test Mode	DUT Frequency (MHz)	Channel Center Frequency (MHz)	Occupied Channel Bandwidth (MHz)	Lower Band Edge (MHz)	Upper Band Edge (MHz)	Limit (MHz)
Temperature	Voltage							
NT	NV	802.11b	2412	2412.029996	14.958130	2404.550931	2419.509062	Within The Band 2400 MHz to 2483.5 MHz
			2472	2472.029996	14.938133	2464.560930	2479.499063	
		802.11g	2412	2412.002500	16.702912	2403.651044	2420.353956	
			2472	2472.009999	16.727909	2463.646044	2480.373953	
		802.11n20	2412	2412.002500	17.832771	2403.086114	2420.918885	
			2472	2472.004999	17.837770	2463.086114	2480.923885	
		802.11n40	2422	2422.044994	36.125484	2403.982252	2440.107737	
			2462	2462.044994	36.125484	2443.982252	2480.107737	
Test Verdict		Pass						

Test Plots

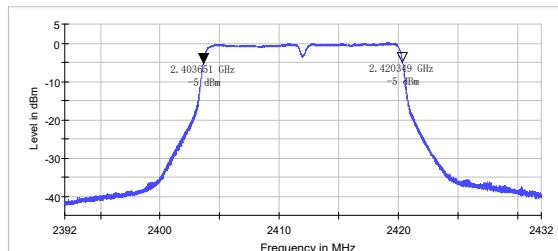
802.11b: Low Channel



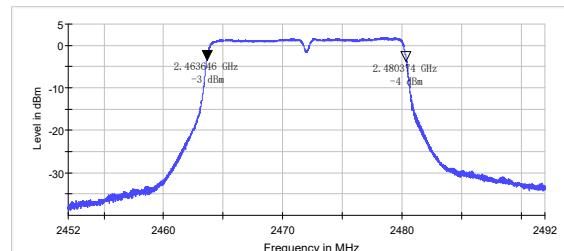
802.11b: High Channel



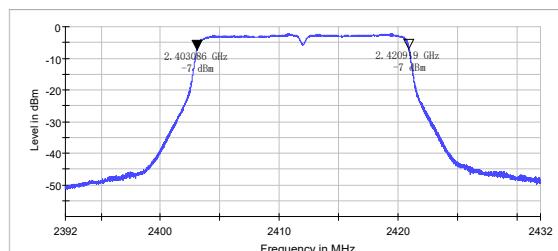
802.11g: Low Channel



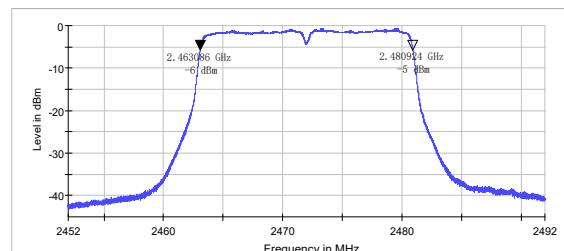
802.11g: High Channel



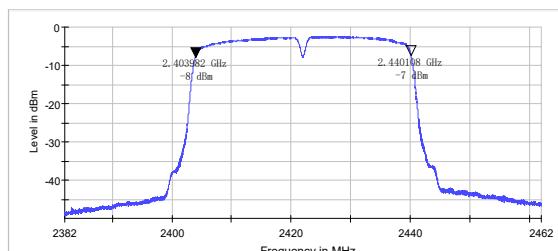
802.11n-20 MHz: Low Channel



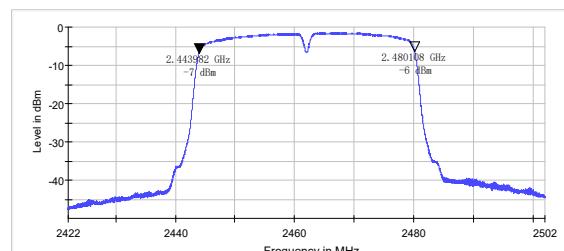
802.11n-20 MHz: High Channel



802.11n-40 MHz: Low Channel



802.11n-40 MHz: High Channel



A.7 Transmitter unwanted emissions in the out-of-band domain

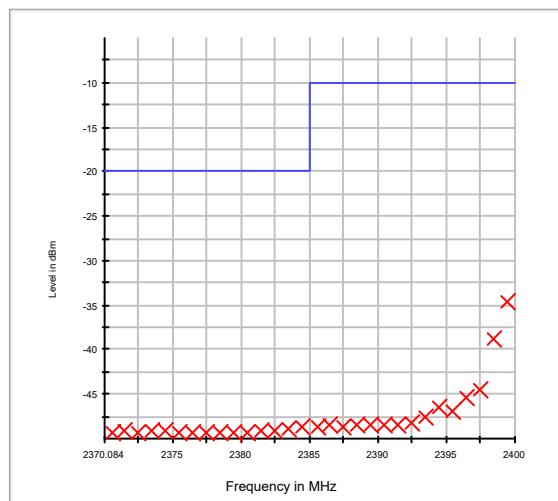
Test Data

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

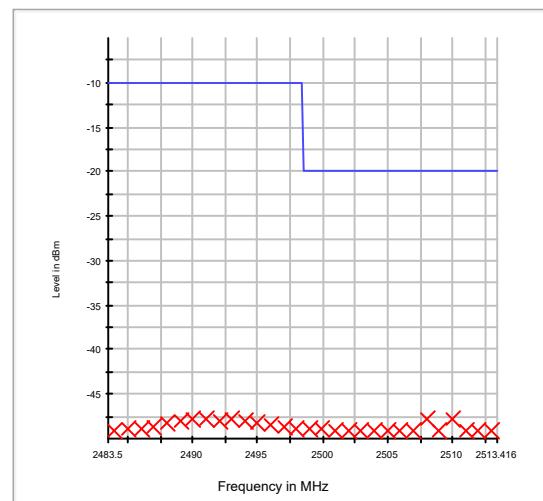
Test Method	Test Conditions		Test Mode	Frequency (MHz)	OOB Emission Worst level(dBm/MHz)	Limit(dBm /MHz)
	Temperature	Voltage				
<input type="checkbox"/> Radiated <input checked="" type="checkbox"/> Conducted	NV	NT	802.11b	2412	-34.7	-10,-20
				2472	-31.6	-10,-20
			802.11g	2412	-29.1	-10,-20
				2472	-25.2	-10,-20
			802.11n-20 MHz	2412	-38.3	-10,-20
				2472	-30.7	-10,-20
			802.11n-40 MHz	2422	-40.8	-10,-20
				2462	-30.8	-10,-20
Test Verdict			Pass			

Test Plots

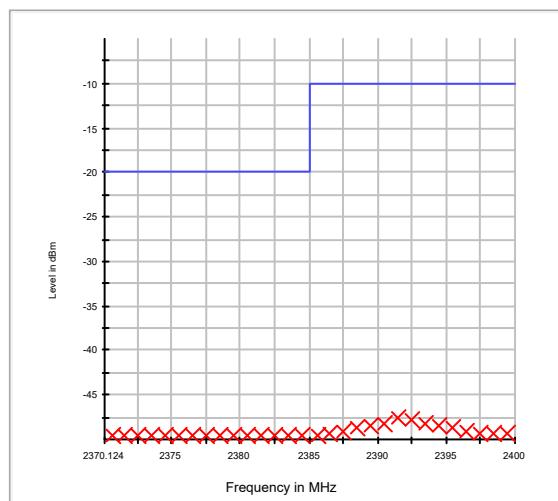
802.11b: Low frequency (Part 1)



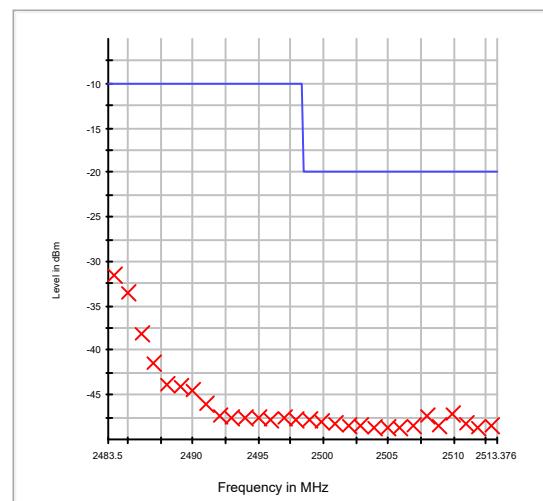
802.11b: Low frequency (Part 2)



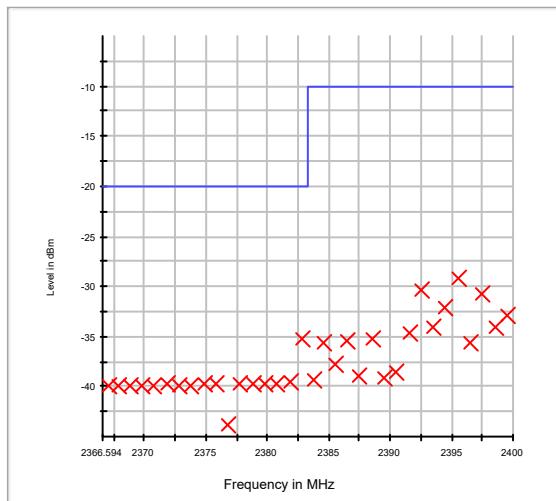
802.11b: High frequency (Part 1)



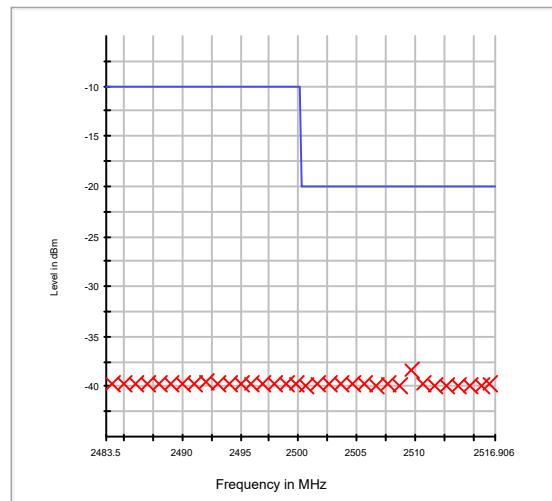
802.11b: High frequency (Part 2)



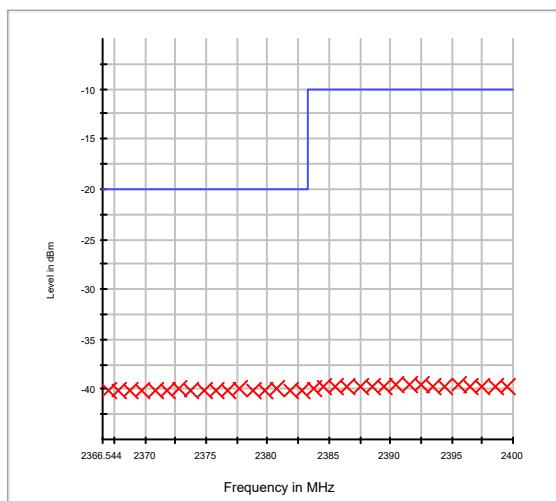
802.11g: Low frequency (Part 1)



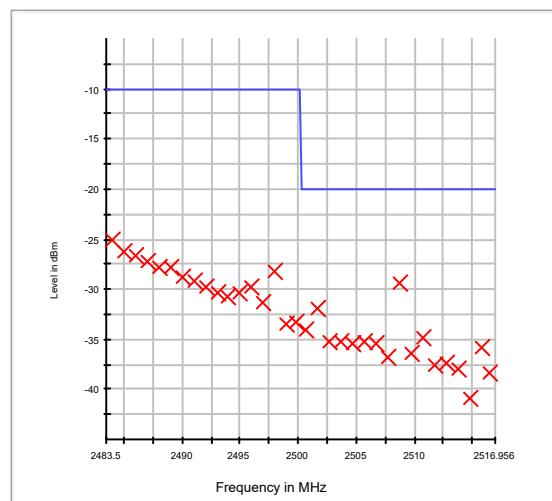
802.11g: Low frequency (Part 2)



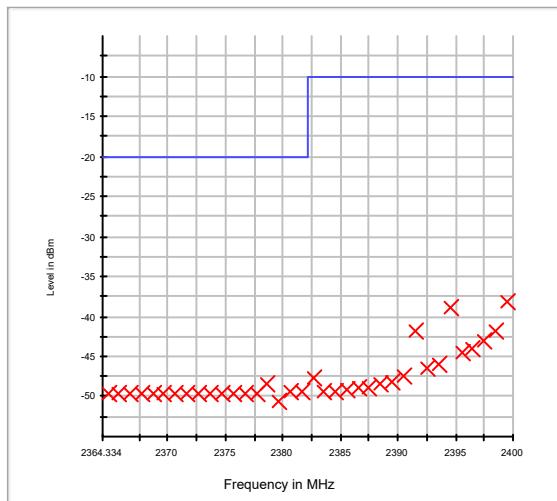
802.11g: High frequency (Part 1)



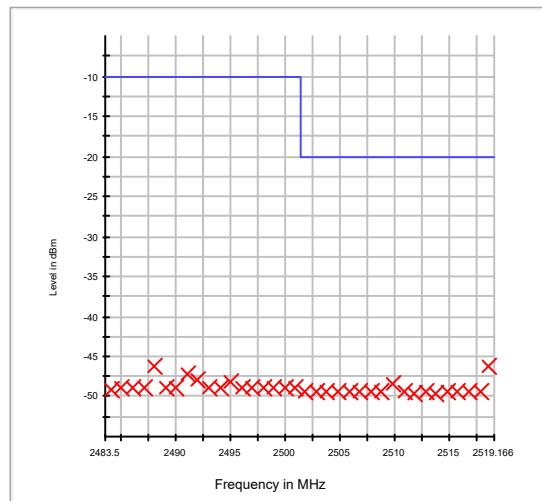
802.11g: High frequency (Part 2)



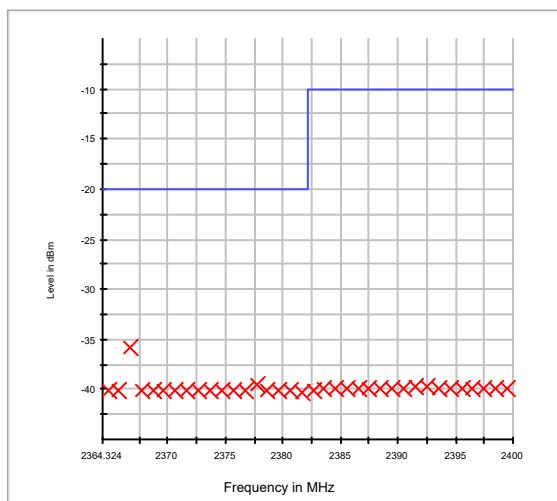
802.11n-20 MHz: Low frequency (Part 1)



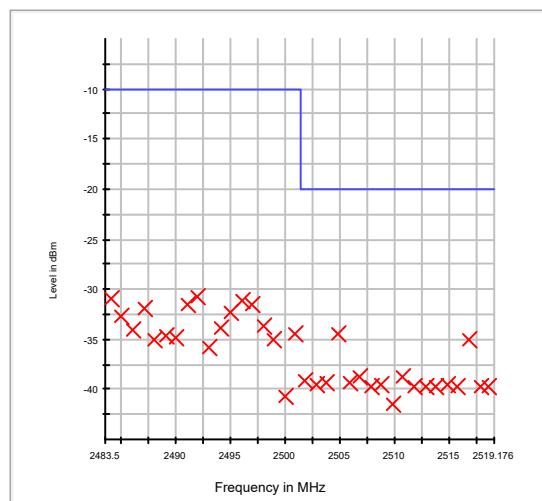
802.11n-20 MHz: Low frequency (Part 2)



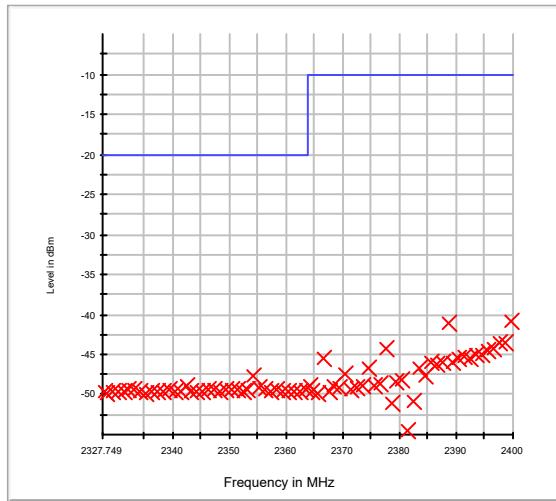
802.11n-20 MHz: High frequency (Part 1)



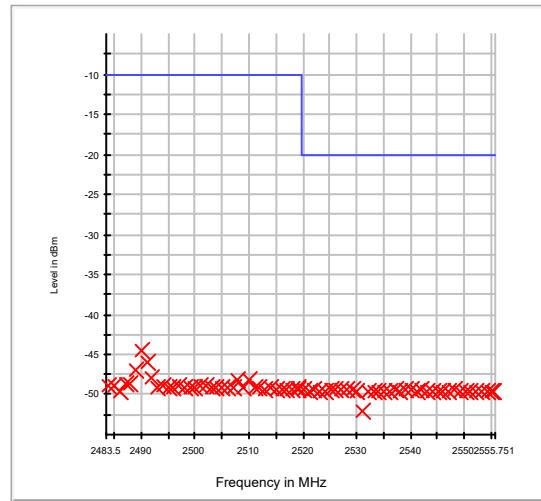
802.11n-20 MHz: High frequency (Part 2)



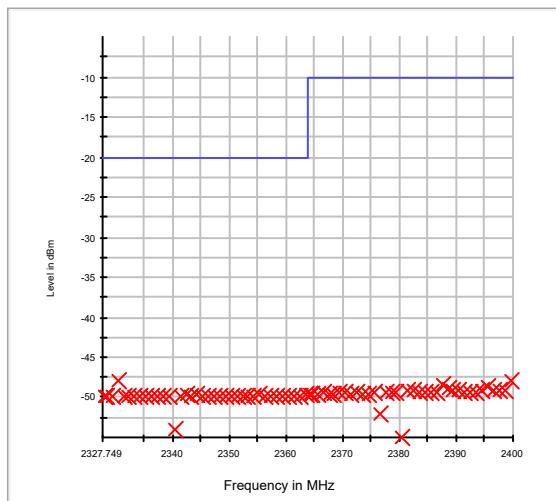
802.11n-40 MHz: Low frequency (Part 1)



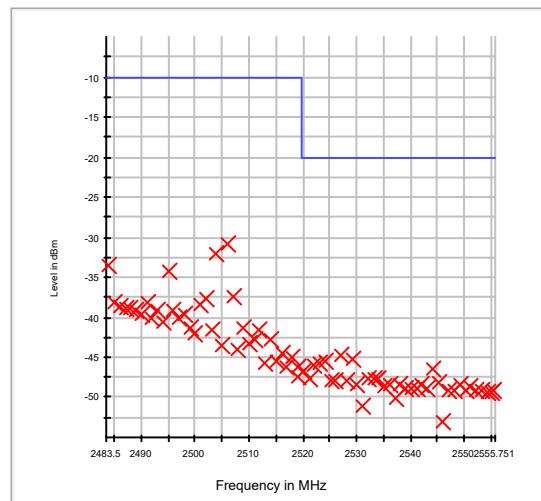
802.11n-40 MHz: Low frequency (Part 2)



802.11n-40 MHz: High frequency (Part 1)



802.11n-40 MHz: High frequency (Part 2)



A.8 Transmitter Spurious Emissions

Note ¹: The test method choose the conducted method. Which power in a specified load (conducted spurious emissions) and their effective radiated power when radiated by the cabinet or structure of the equipment (cabinet radiation).

Note ²: The Frequency band was pre-scanned, the harmonic and other spurious which worst frequency are recorded in the report.

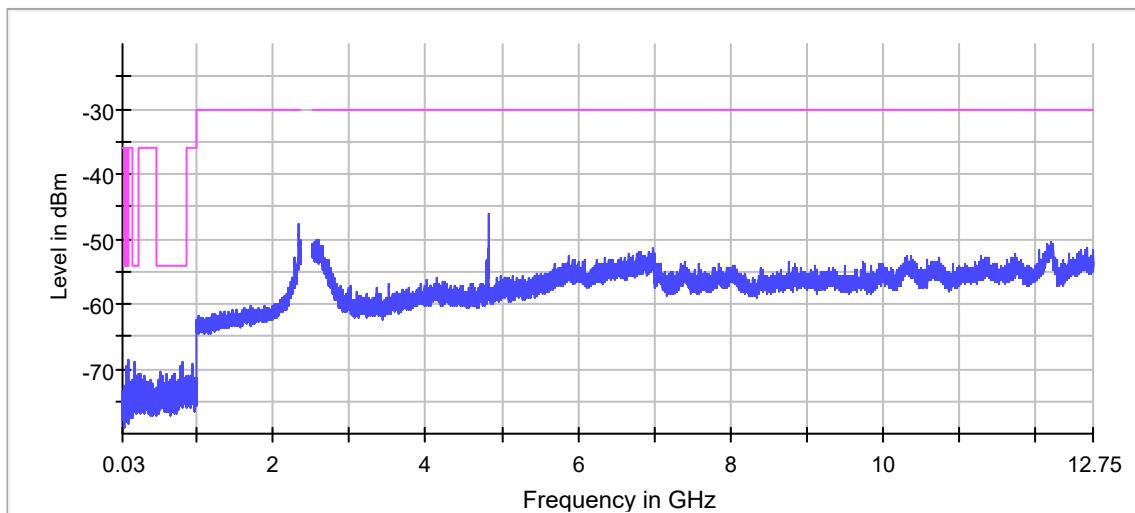
Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Measuring Parameter

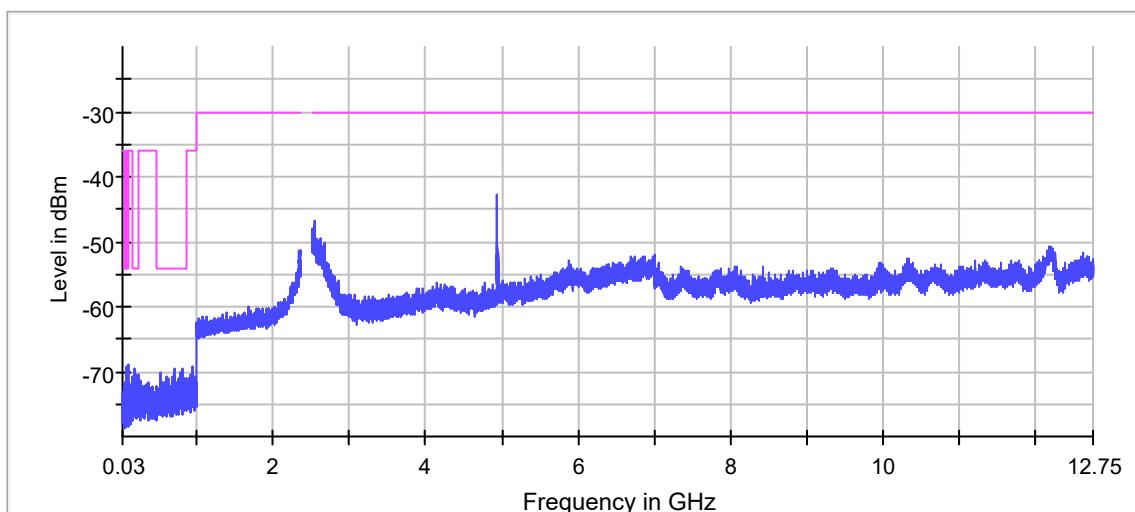
Frequency Range		
30 MHz to 1 000 MHz	RBW (MHz)	100 kHz
	VBW (MHz)	300 kHz
	Sweep points	9970
	Detector mode	Peak
	Trace mode	Max Hold
1 GHz to 12,75 GHz	RBW (MHz)	1 MHz
	VBW (MHz)	3 MHz
	Sweep points	11750
	Detector mode	Peak
	Trace mode	Max Hold

Conducted Test Data

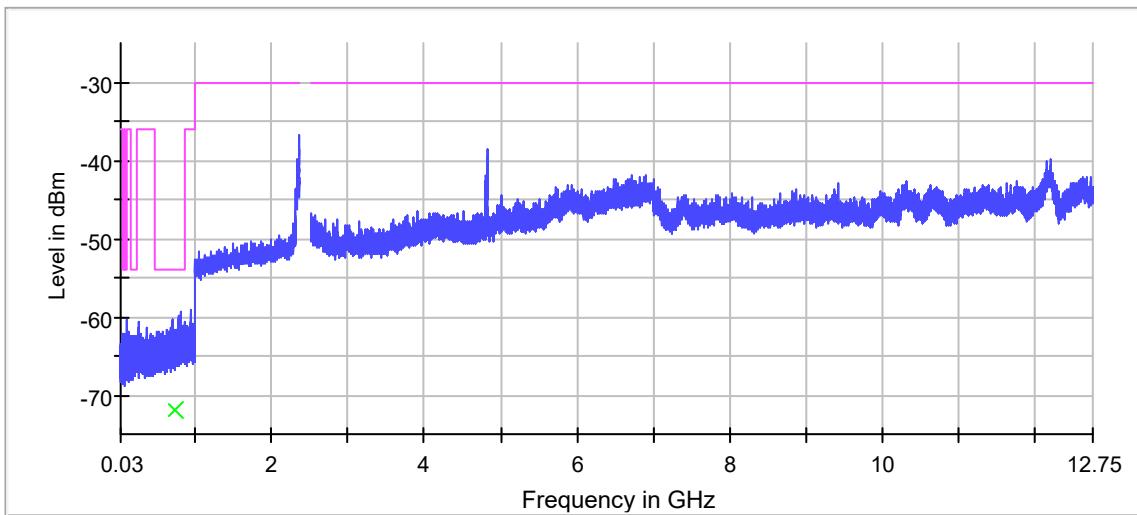
802.11b Low Frequency



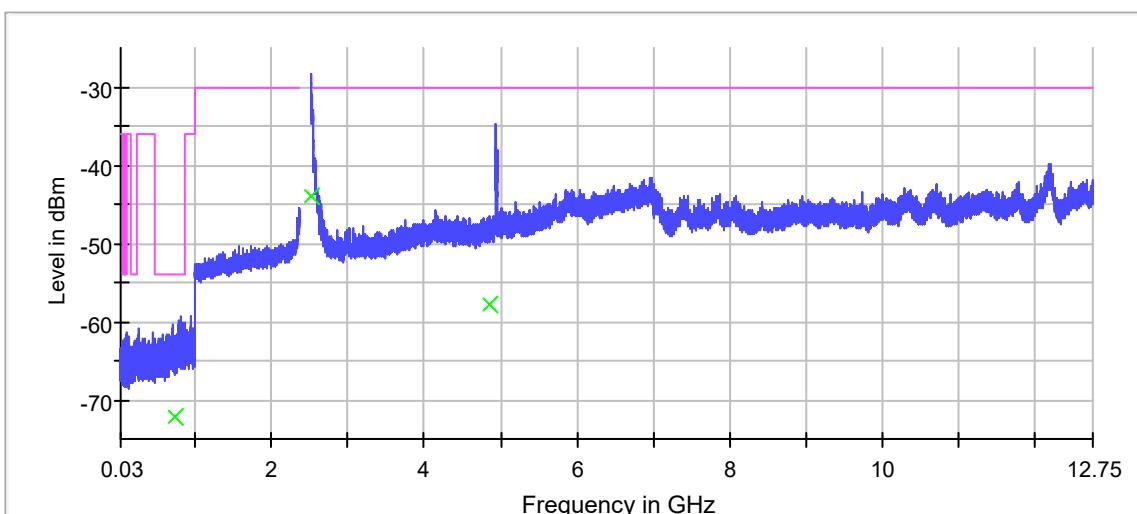
802.11b High Frequency



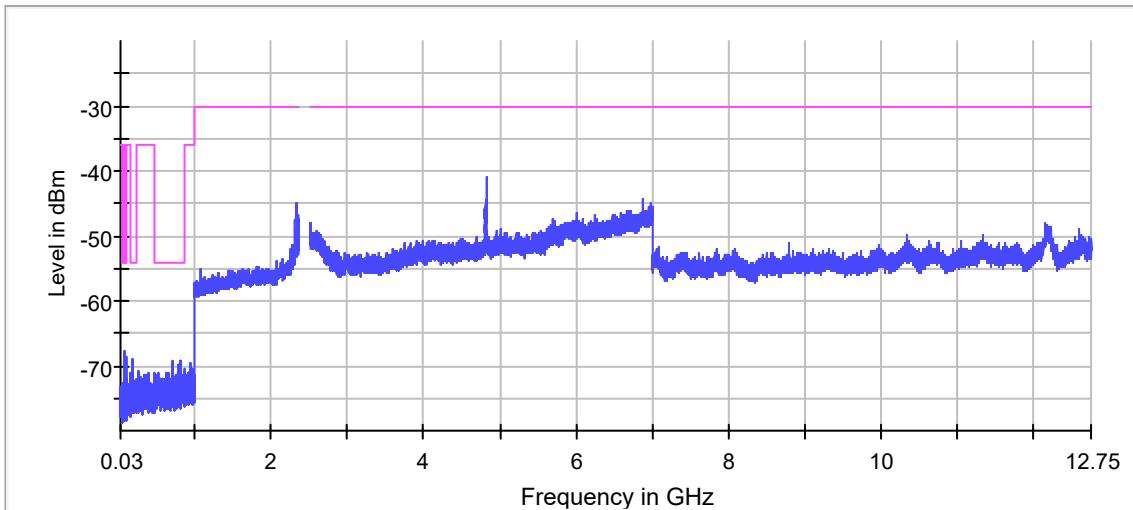
802.11g Low Frequency



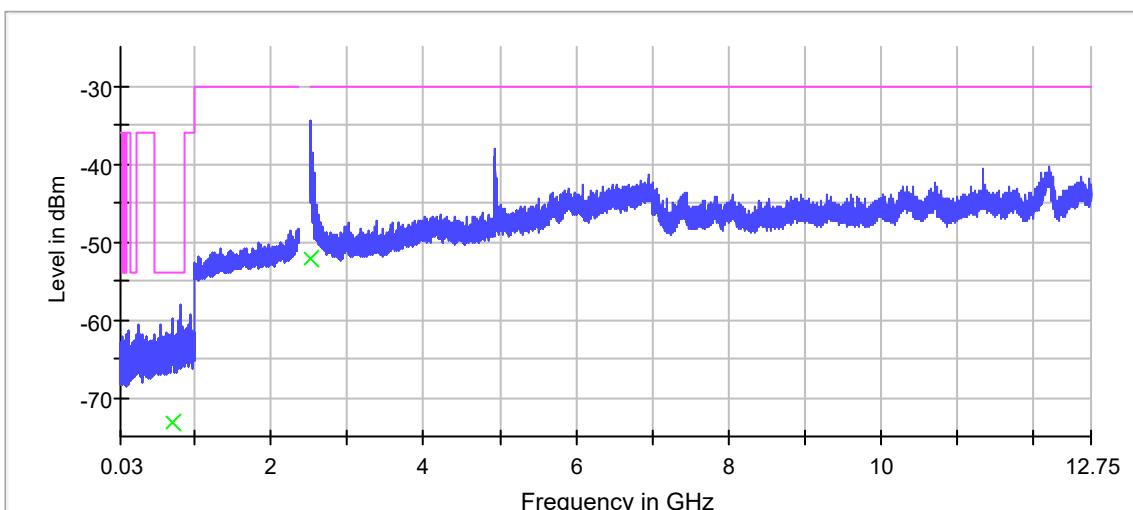
802.11g High Frequency



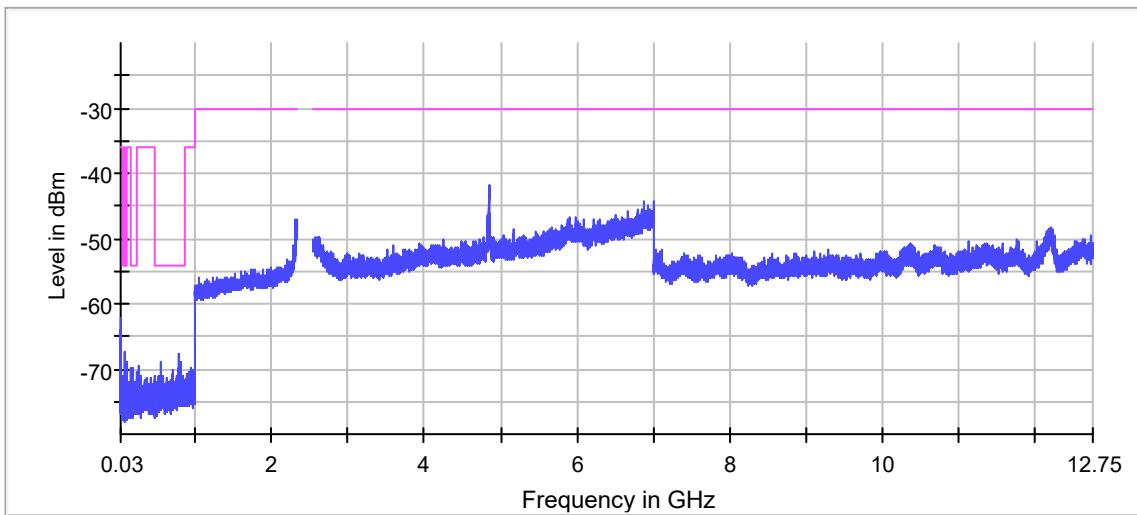
802.11n20 Low Frequency



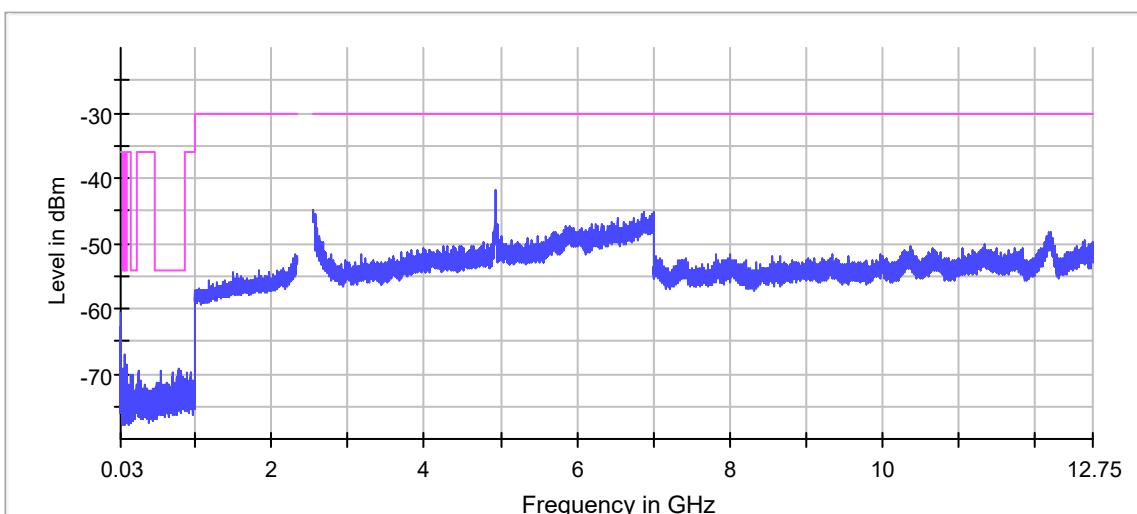
802.11n20 High Frequency



802.11n40 Low Frequency



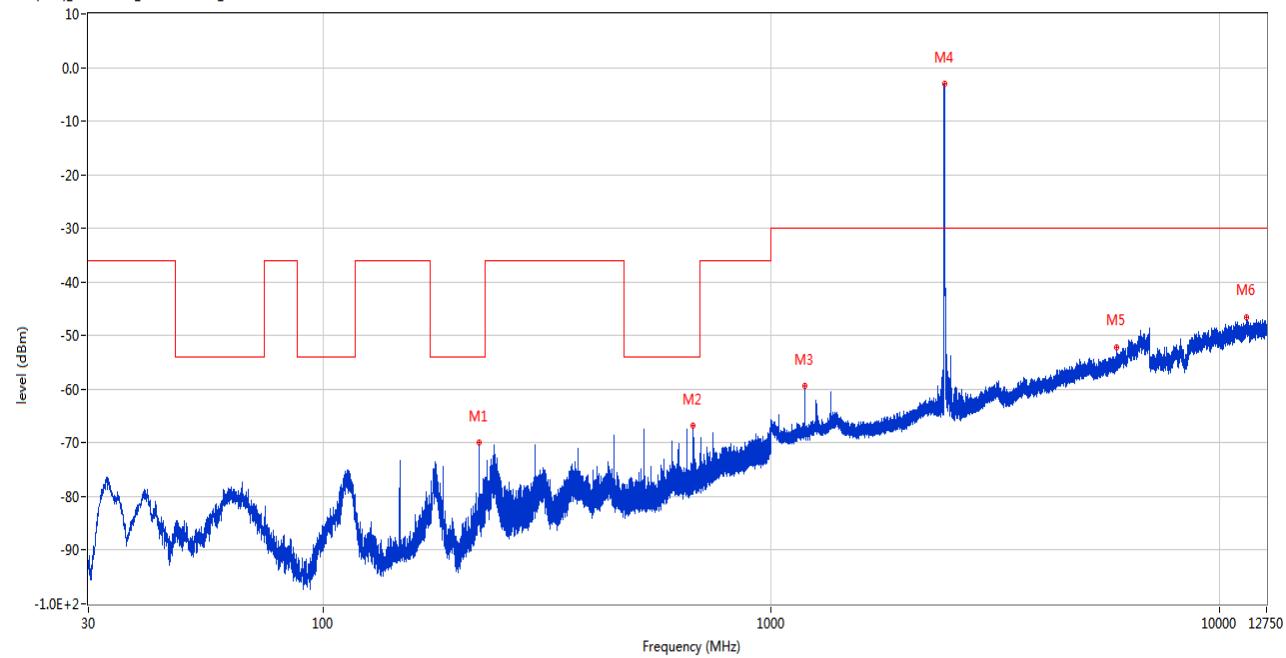
802.11n40 High Frequency



Cabinet Radiation Test Data

30 MHz to 12.75 GHz, ANT H

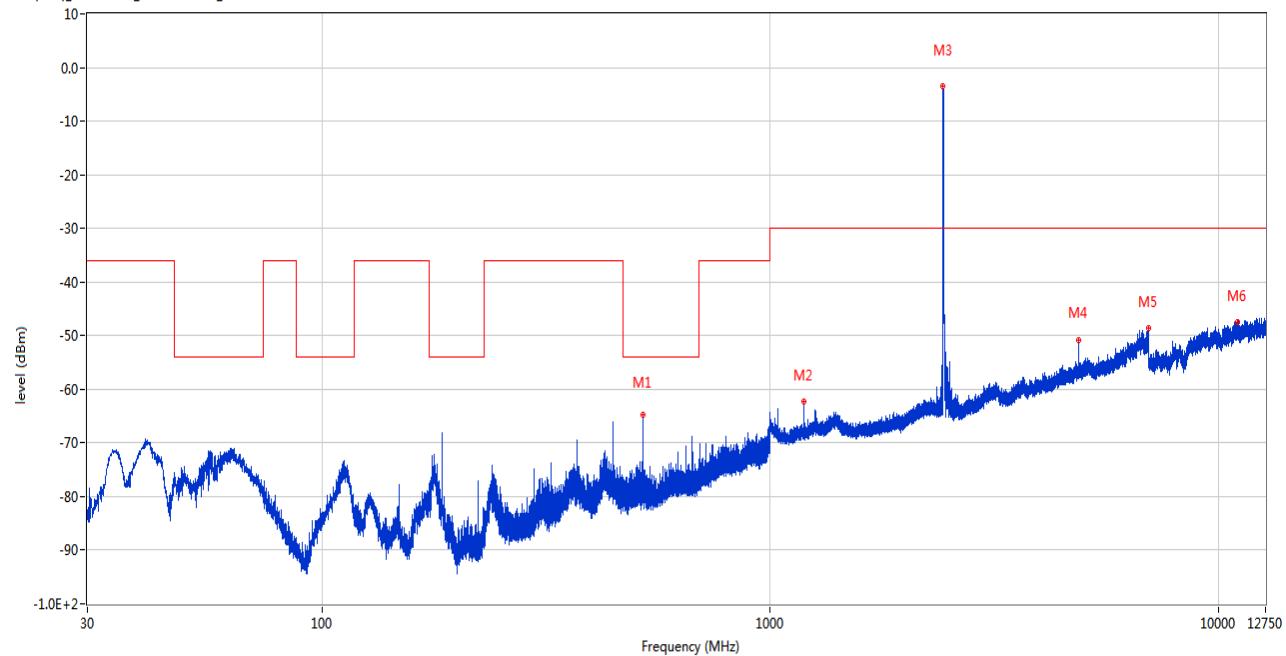
RSE (SRD)_EN 300328_EN300328 TX_30M-12.75GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
222.788	-69.93	-15.85	-54.0	-15.93	121.00	Horizontal	Horizontal	Pass
668.308	-66.87	-3.17	-54.0	-12.87	61.00	Horizontal	Horizontal	Pass
1188.200	-59.40	-6.19	-30.0	-29.40	21.00	Horizontal	Horizontal	Pass
2441.100	-3.00	-2.28	-30.0	27.00	360.00	Horizontal	Horizontal	N/A
5916.600	-52.10	8.07	-30.0	-22.10	202.00	Horizontal	Horizontal	Pass
11492.763	-46.67	17.76	-30.0	-16.67	37.00	Horizontal	Horizontal	Pass

30 MHz to 12.75 GHz, ANT V

RSE (SRD)_EN 300328_EN300328 TX_30M-12.75GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
519.753	-64.77	-7.06	-54.0	-10.77	172.00	Vertical	Horizontal	Pass
1188.100	-62.35	-6.19	-30.0	-32.35	124.00	Vertical	Horizontal	Pass
2433.900	-3.43	-2.36	-30.0	26.57	170.00	Vertical	Horizontal	N/A
4874.200	-50.78	7.02	-30.0	-20.78	77.00	Vertical	Horizontal	Pass
6984.400	-48.65	13.76	-30.0	-18.65	245.00	Vertical	Horizontal	Pass
11028.163	-47.55	16.87	-30.0	-17.55	160.00	Vertical	Horizontal	Pass

A.9 Receiver Spurious Emissions

Note ¹: The test method choose the conducted method. Which power in a specified load (conducted spurious emissions) and their effective radiated power when radiated by the cabinet or structure of the equipment (cabinet radiation).

Note ²: The Frequency band was pre-scanned, the harmonic and other spurious which worst frequency are recorded in the report.

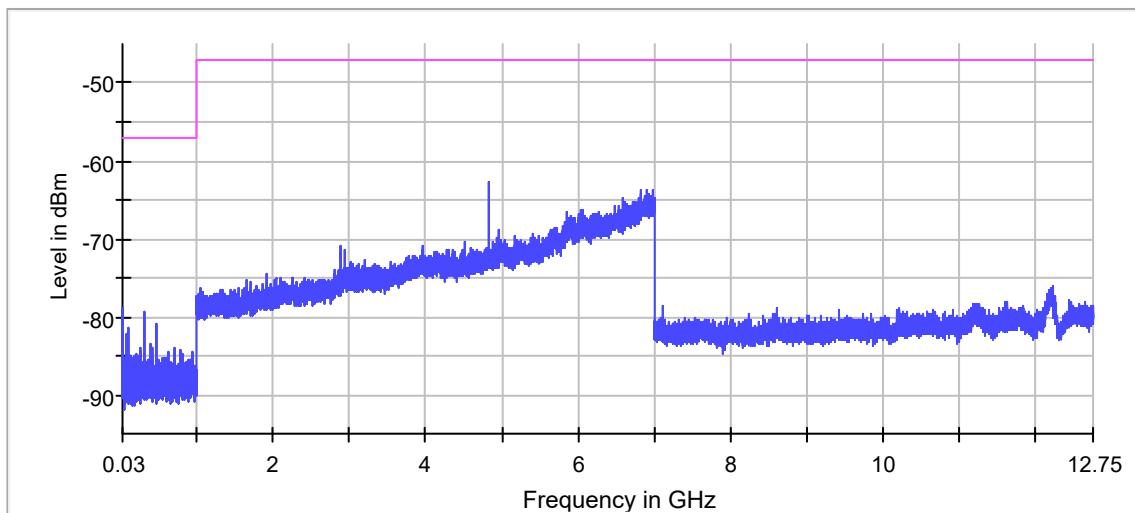
Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Measuring Parameter

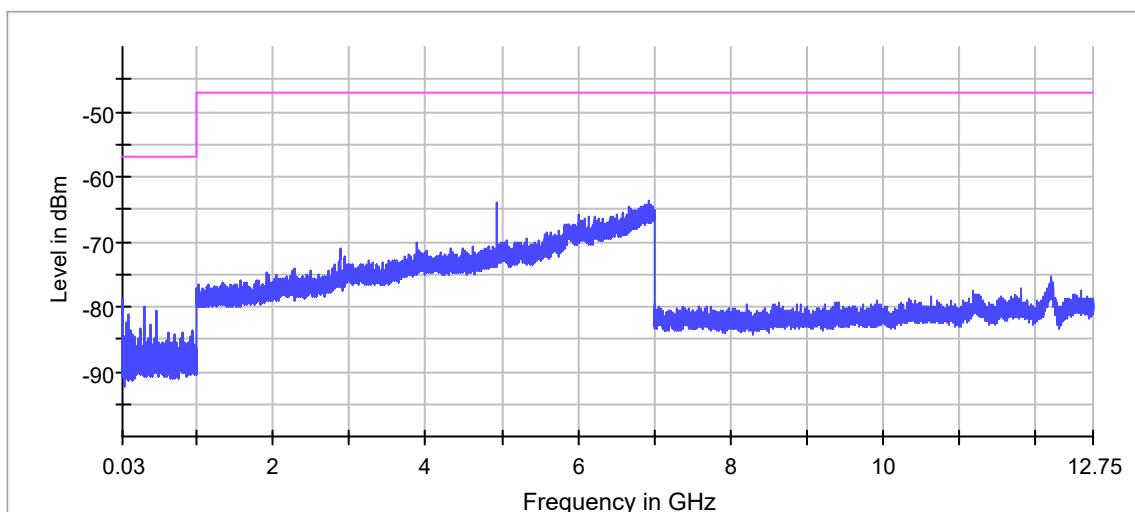
Frequency Range		
30 MHz to 1 000 MHz	RBW (MHz)	100 kHz
	VBW (MHz)	300 kHz
	Sweep points	9970
	Detector mode	Peak
	Trace mode	Max Hold
1 GHz to 12,75 GHz	RBW (MHz)	1 MHz
	VBW (MHz)	3 MHz
	Sweep points	11750
	Detector mode	Peak
	Trace mode	Max Hold

Conducted Test Data

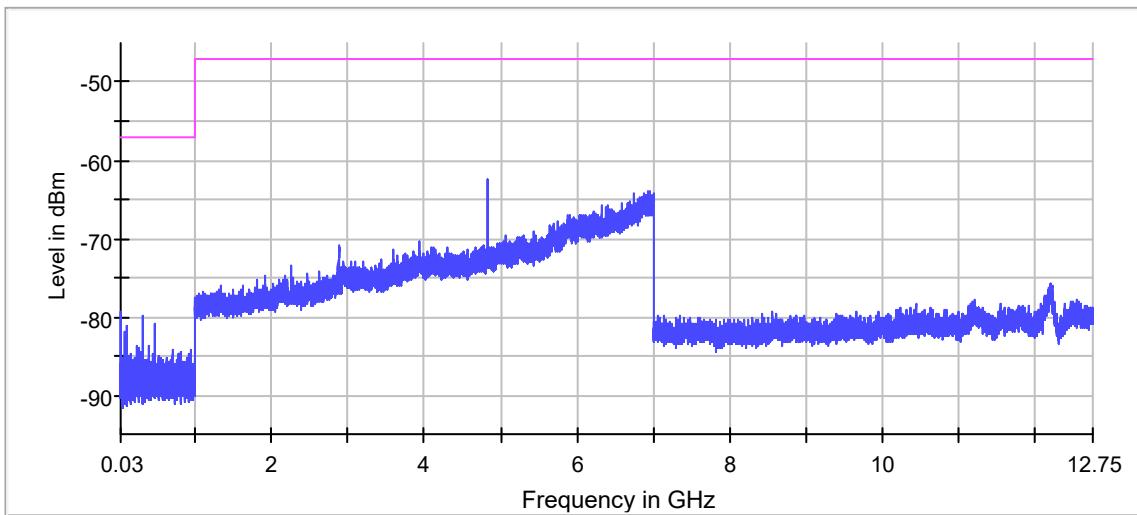
802.11b Low Frequency



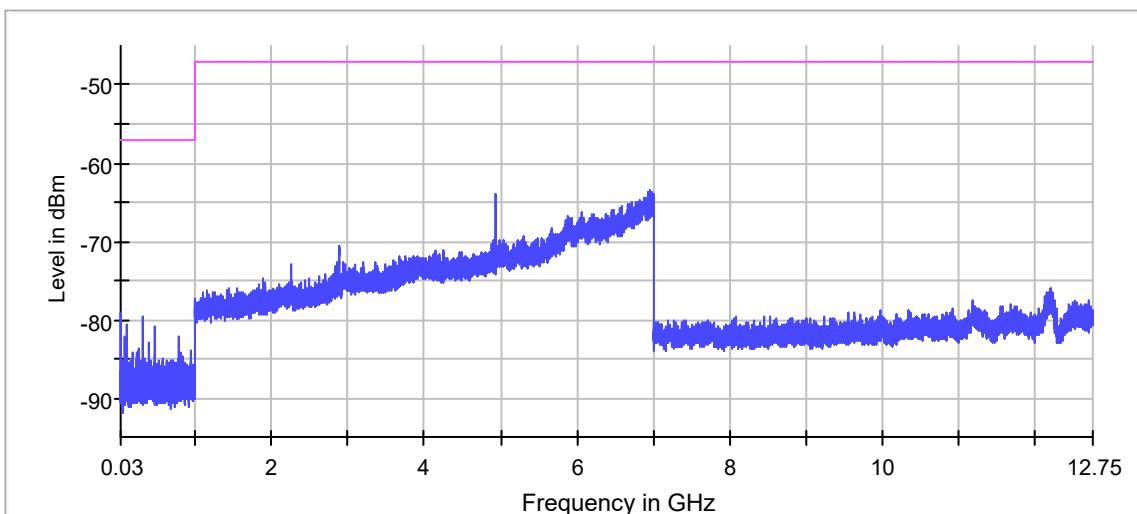
802.11b High Frequency



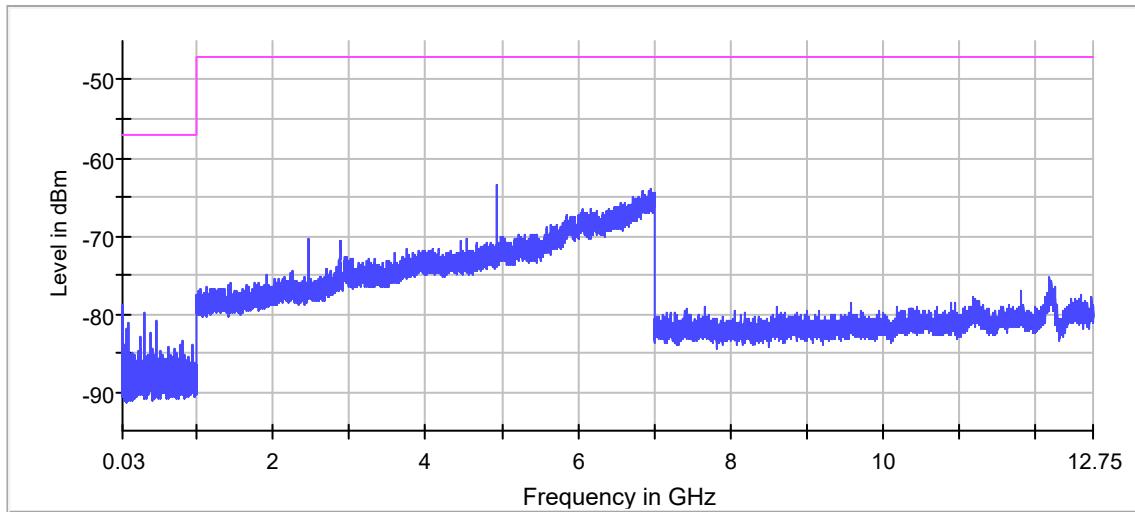
802.11g Low Frequency



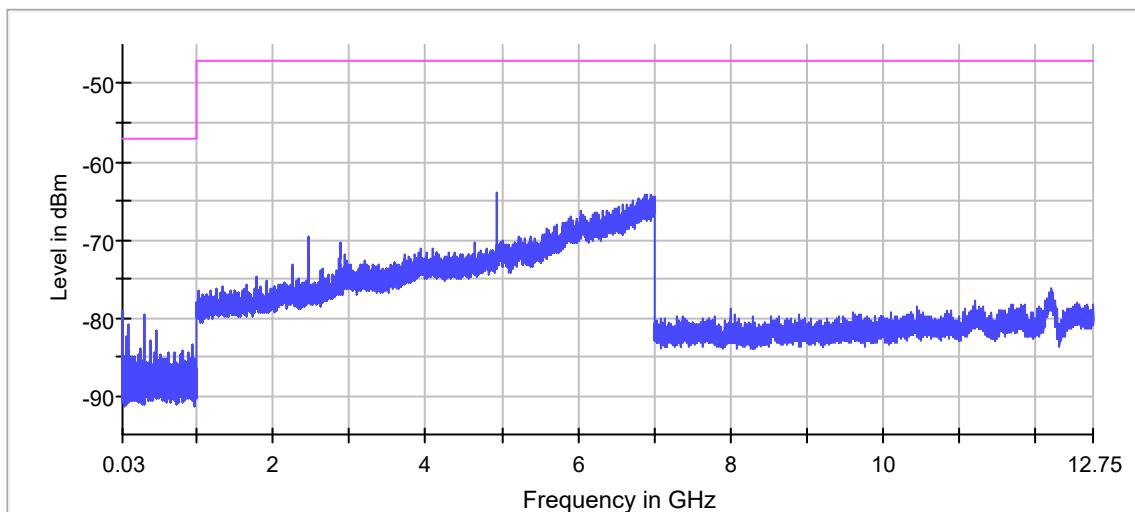
802.11g High Frequency



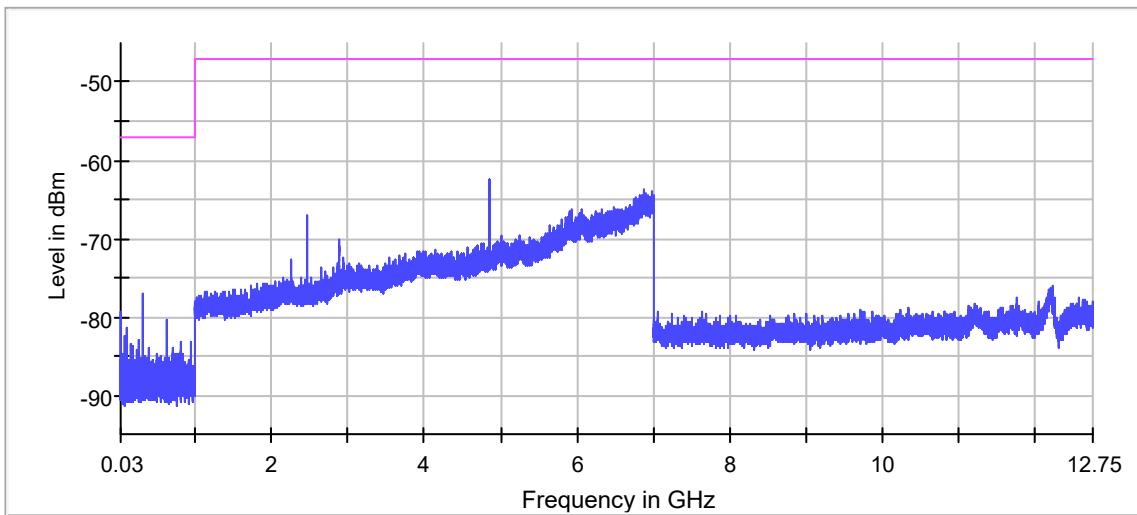
802.11n20 Low Frequency



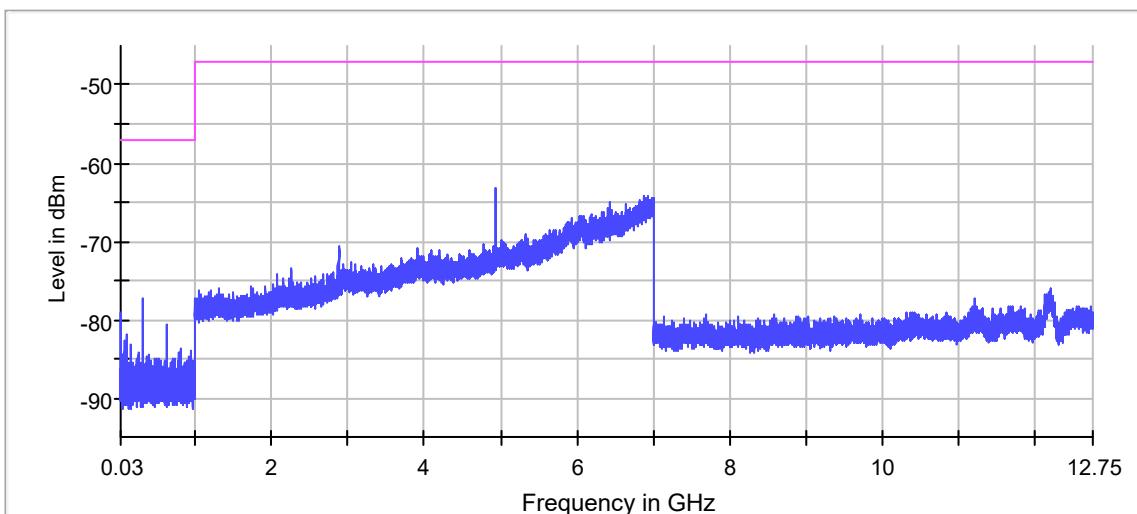
802.11n20 High Frequency



802.11n40 Low Frequency



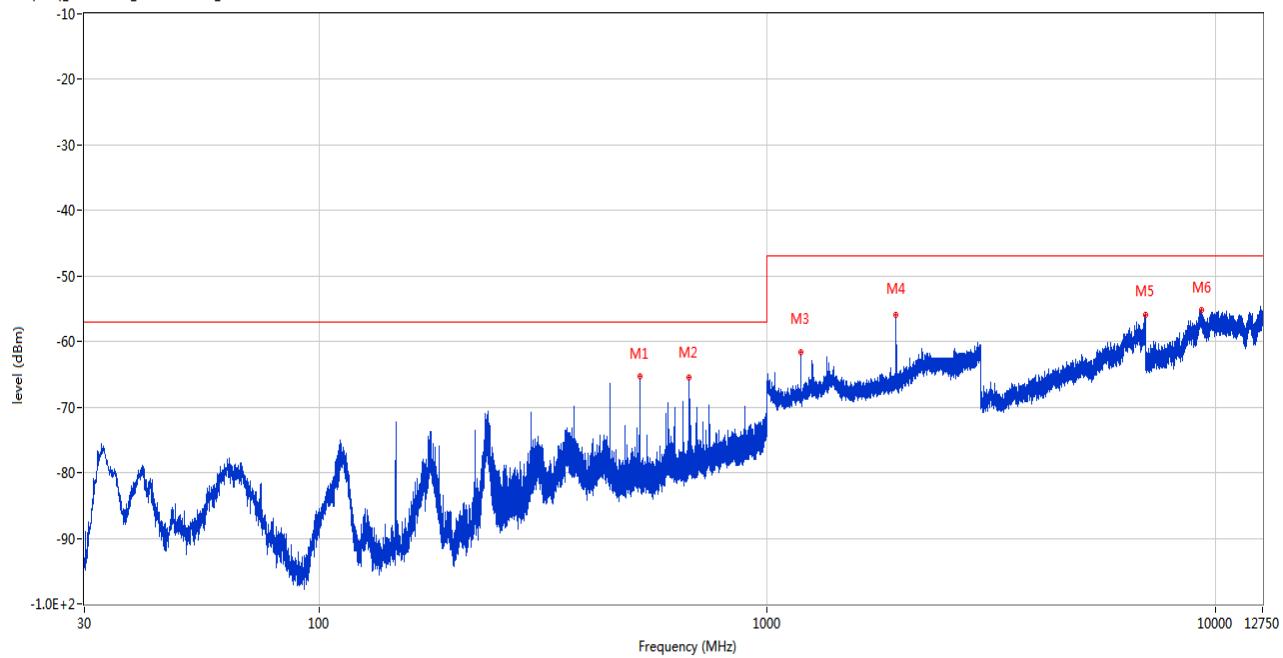
802.11n40 High Frequency



Cabinet Radiation Test Data

30 MHz to 12.75 GHz, ANT H

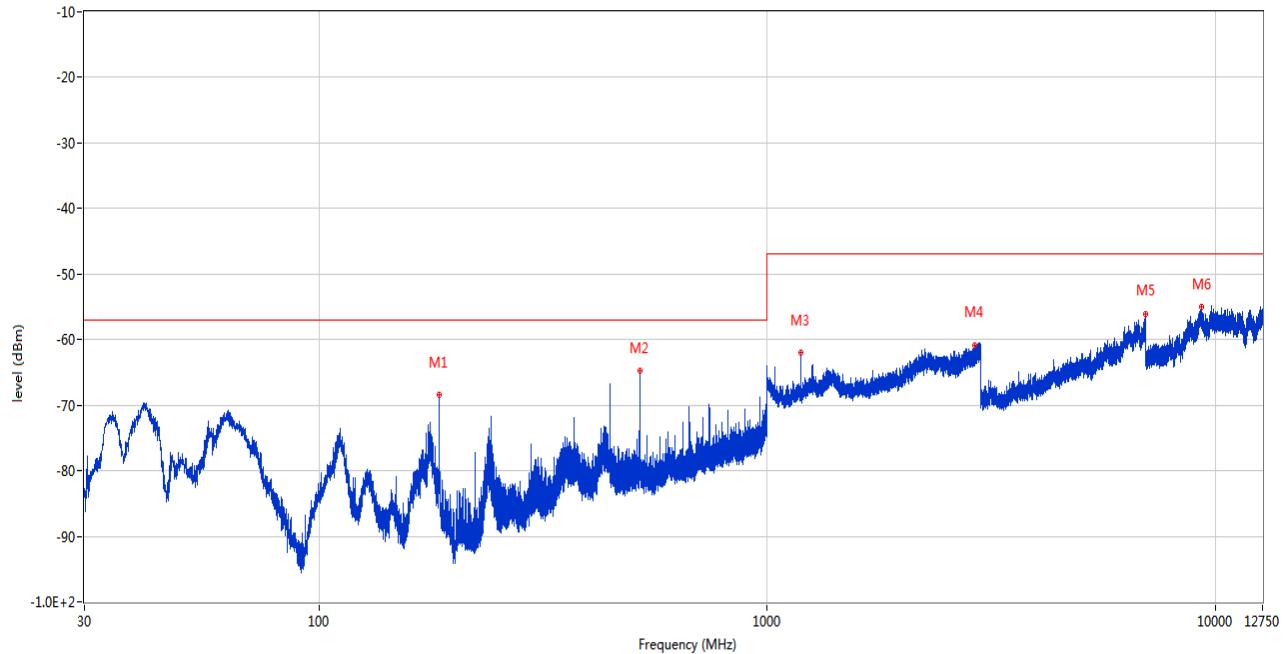
RSE (SRD)_EN 300328_EN300328 RX_30M-12.75GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
519.753	-65.29	-7.06	-57.0	-8.29	90.00	Horizontal	Horizontal	Pass
668.260	-65.52	-3.17	-57.0	-8.52	42.00	Horizontal	Horizontal	Pass
1188.200	-61.54	-6.19	-47.0	-14.54	10.00	Horizontal	Horizontal	Pass
1938.900	-55.96	-5.13	-47.0	-8.96	297.00	Horizontal	Horizontal	Pass
6992.800	-56.00	5.91	-47.0	-9.00	83.00	Horizontal	Horizontal	Pass
9327.313	-55.27	9.55	-47.0	-8.27	12.00	Horizontal	Horizontal	Pass

30 MHz to 12.75 GHz, ANT V

RSE (SRD)_EN 300328_EN300328 RX_30M-12.75GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
185.685	-68.40	-14.86	-57.0	-11.40	0.00	Vertical	Horizontal	Pass
519.753	-64.77	-7.06	-57.0	-7.77	152.00	Vertical	Horizontal	Pass
1188.200	-62.01	-6.19	-47.0	-15.01	197.00	Vertical	Horizontal	Pass
2913.600	-60.93	0.84	-47.0	-13.93	220.00	Vertical	Horizontal	Pass
6987.000	-56.19	6.01	-47.0	-9.19	116.00	Vertical	Horizontal	Pass
9299.138	-54.95	10.20	-47.0	-7.95	251.00	Vertical	Horizontal	Pass

A.10 Receiver Blocking

Test Data

Note 1: Blocking signal levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels corrected by the actual antenna assembly gain.

802.11b:

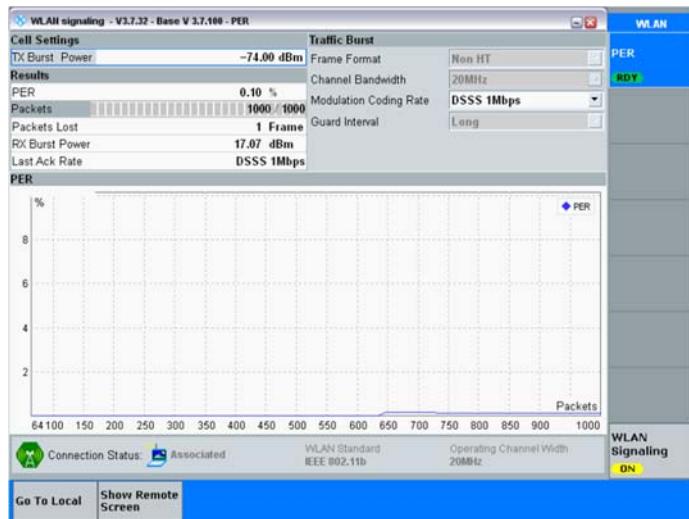
Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER Result		Limit	Verdict
			Low channel	High channel		
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less	2 380	-34	0.00%	0.00%	≤10%	Pass
	2 504	-34	0.00%	0.00%		
	2 300	-34	0.10%	0.00%		
	2 330	-34	0.00%	0.00%		
	2 360	-34	0.00%	0.00%		
	2 524	-34	0.00%	0.00%		
	2 584	-34	0.00%	0.00%		
	2 674	-34	0.00%	0.00%		

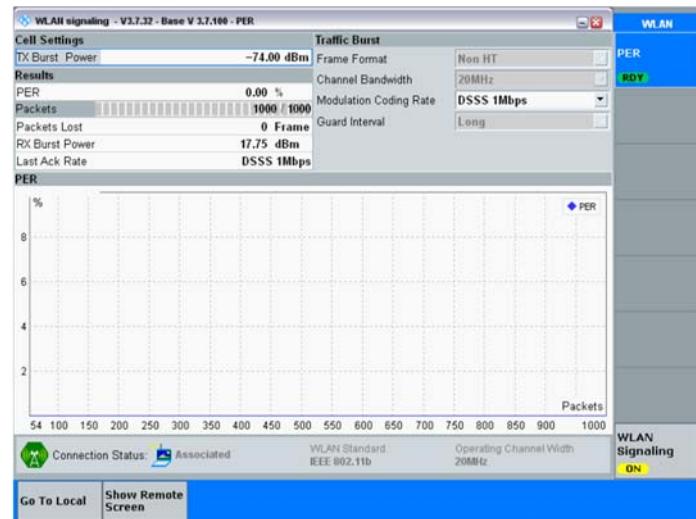
Test Plot (PER)

Note: All the configuration were tested, but only the worst PER Plot were reported in this report.

802.11b: Low Channel



802.11b: High Channel



ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ2140984-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ2140984-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-SZ2140984-AI.PDF".

--END OF REPORT--